

2001

tggaccgcca	tcggcgtggc	gtacgtcgct	gaaaagcgca	acgacaacca	cgtgcggctg	600
gataacagct	acatcccgcc	aatgctgaac	gccaaataaca	gcccgcagct	gtacggcatg	660
atcaatgacc	tgcacggctt	gctggtgcag	cgtagccagc	agatcggcgg	ccgcctgcgc	720
cagccggggc	gtttcaatac	gtctgagatg	gttgagttca	cgcttctctc	gctgatcaac	780
cgccaccttg	gcgacgtctc	acatttaaaa	acgctgccgc	tgtttcatcc	ggaagcgctc	840
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gagagcatac	tgcgggtata	cgaccatgac	catctcgccg	tttgcttcag	caaactgatg	960
ctgatgctgc	gtcagggact	gttcctgggtg	atggaagatc	atgccatcca	gctgccgctg	1020
cacgaacgct	cccccggtct	gaacatcgtc	accgagcccg	gagaccagca	tggtcgcgca	1080
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gccgggcatc	atgcttcggg	caatgcccgt	cgcgcgcgcg	cagatcccgt	ggcatgcagg	1260
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ccgtag						1386

<210> 5251

<211> 837

<212> DNA

<213> Enterobacter cloacae

<400> 5251

gccgtcaggc	cacgttcaac	gtcgacggac	atcagggtcac	gctggagttt	gccccgaaca	60
gcatccgcaa	cccgttccag	cttccccgtt	tctcatgccc	ataaccgcaa	ggacagccgt	120
atgacgaata	cccctgcgat	gaaccgatat	agctgggtatg	gcaaattacc	cagcgccgga	180
gattttttgc	agcgtcgctt	tccggatacc	ctgcaacgcc	agtggtcgca	ctggttccag	240
gtcggcctgc	tggcctggca	acaggaagag	cagcgcagcg	gcgagcgccc	gttttctaaa	300
gccccggtgt	ggaactttgt	cgccccggcg	atgctcggta	gccagatgat	tcagatgggc	360
tgctgctgc	cgggccgtga	cagcgtaggc	cgccactatc	cggtatgcct	gcaactgagc	420
ttcacccccg	ccgagtggtc	atcccgcctg	ctcgggcagg	ctgagagctg	gtaccagcag	480
cttgcccgctc	tggggctgca	cgcggtgcgt	aacagctatt	ctgcctccca	gctggatgaa	540
atgctgatga	ccatcccggc	gccccagccg	gttgagccgc	aaaagcgttc	cgacattctc	600
gacgtgattg	gctatgaaga	cgagggtcag	agcacgctgg	gctggccgca	ggcggcggag	660
tgttttgatc	cgctgcgcca	gaccagctac	tggtggacaa	accgctgcga	cggttatccg	720
ctctacaccc	acgtccacag	cggaaacttt	accgggcagc	tctttacgct	gctgttcgat	780
ccggcaggcg	gcgcccgtcc	gggccgcccac	ggtctttacc	cgcctatggt	tgaataa	837

<210> 5252

<211> 357

<212> DNA

<213> Enterobacter cloacae

<400> 5252

acatcgtcac	cgagcccggga	gaccagcatg	gtccgcgaat	ttggcttcgt	gctggcggta	60
aaagccaatg	tccccggcga	acacctgcaa	acccattttc	ctgcccagat	gaagggtgcg	120
ccagtctcga	aaatccgcga	tctggttcag	cttcagctgc	cgggcatcat	gcttcggggca	180
atgcccgtcg	cgccgcgcga	gatcccgtgg	catgcaggct	acagctattt	cgaactcgaa	240
aggggcagcg	aactgtggca	cgagatggac	aagtccgggg	cattcgcgct	gcatctcgca	300
ggggaattcc	cgggtctcga	tatggagttc	tgggccatcc	gtagcccagc	agaataa	357

<210> 5253

<211> 396

<212> DNA

<213> Enterobacter cloacae

<400> 5253

tggttcgttt	attcctggca	gcgctacgct	ctggagcctg	aaatgagacg	tttactcgct	60
ttcgtactcg	cgttaaatac	ctcatatacc	atcgcccata	ctctcccga	cgttaacacc	120
ttttctcaac	aacagatttt	tgaaaaactgg	gtgcagaatc	gctgtatcgg	caagattgcg	180
gacagtgcga	cgctgaaaaa	tgatgcaaag	gcaagcgccg	cagcatggct	ggaagtcagt	240
aacctgcctg	ccgagaattt	cgaaaaagcc	gacgaggtta	ttaactcctt	actgaaacaa	300

aagctaggtg	gtacggcacc	ggcaaaactat	gaggtattaa	agtgacagctt	aatatcccat	360
agcgatgcga	ttcgccaact	caatgtccaa	aaataa			396

<210> 5254

<211> 987

<212> DNA

<213> Enterobacter cloacae

<400> 5254

actttctgca	aaagctacac	attaaaaata	caaggagttt	acatggcaag	tccgtcaaac	60
gttgctccag	gttactgtgt	cgttcagcaa	cccggcactc	tggattttca	ggcaagacag	120
ctatttgga	ctgcgcgcaa	tgaaaaatcc	gagtatttta	tgcaattgaa	taaagacact	180
gcgtggctca	aaccgcggaca	aatattaatt	gttgctgacc	cgcttggcga	taatcaaact	240
caacagatca	atagcttagc	cattgcaaaa	aagaaggatga	ccaacgcgct	tgcgactttg	300
gatggagcca	ccgctgagtt	tttgaaaaat	aattatgata	atataaaagc	cataacaggc	360
tggggcgata	caatcgctcg	gggcgtgagc	ggtacagggt	agtcataatt	taagcaaatt	420
gaaaatattt	taattaaaa	tgaagccacc	tatcaaaatc	agtacaggac	acaagggtgc	480
ctttttggcc	aacaatttta	tgctgagcgc	aatgcgcttt	tcgcgcaatt	gaaacccttg	540
ttaaataaaa	taactaaaa	acagcttaag	tttaaagatt	atgcggatct	taagagagca	600
ttaggactgt	ccacgaaatc	aatagtccat	gaatggagta	cagtttggtat	tggtgcaatc	660
cctggctact	caacatatat	tgacagagca	gccagaatat	cctcttacct	gaaagcaggt	720
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actactggaa	gagaacatga	gtgcagcaga	gttgacagta	cagaatatag	caaatttgga	840
ggcgtgtctg	ctgggtgctg	attaggctcc	tcccttgccg	ctcctgtttg	tcttgcatat	900
ggtgtgcccc	cagcggggac	aggtacattc	atggtgtggt	caagtgggaag	gacagtgggg	960
gcagggggaa	aaacaaaaat	tgttggt				987

<210> 5255

<211> 207

<212> DNA

<213> Enterobacter cloacae

<400> 5255

caggcgctta	cgcagctcaa	tgaggtgcgc	aatcagcggg	tgagtatcat	ctactgccat	60
gtttacgctt	tatcactcga	cgagggggat	gattcggaaa	caggcgcggc	gggttttacc	120
tcagccgttt	tgaccacggg	ctcttccggc	ggcacctgct	ttttcacttc	gggctcctgc	180
ggcgattgct	ctggcgaaag	ggcctga				207

<210> 5256

<211> 300

<212> DNA

<213> Enterobacter cloacae

<400> 5256

cggccaggcg	gcgatttccc	ggtgcagggc	ggtgatctgc	tcggtaagat	gctccgcaag	60
ccacgcgacc	tgttcctgct	gttcaactct	aaccgcgtgg	cgaagctcgt	cgaggttggt	120
ctgcgcttca	gcaaggtaat	cctgaatgac	ggtgctgcgg	gtgcggaaga	gctgccggtc	180
aaagcgcggg	ttcagcgtgg	cgtggcccat	cagcgggtgt	gcctgcgccc	gcagcgcgat	240
cagctgattt	tgcagcctct	caagaagcag	tgctgttttc	aaggcgtctc	ccagtggtaa	300

<210> 5257

<211> 258

<212> DNA

<213> Enterobacter cloacae

<400> 5257

tgccataagg	ctttcctctc	cctcccctca	gcaaatttat	caaaatctgc	cttttttcat	60
gcttattgcc	tttttattgt	gttttcaaca	attattcata	aacataagcg	taaaaattgt	120
cataaactat	taatcggttt	tttggtattt	gcaccaaaaa	tggatcacc	atcgcaaaag	180
gagacggaat	gcaccacgcc	acaccgttta	tcaccacat	tggttggtgga	cttgtgctgc	240
cttttattct	cggcatga					258

<210> 5258
 <211> 219
 <212> DNA
 <213> Enterobacter cloacae

<400> 5258
 cgtccctggc gtttatcctc cggcgttatg ccgctgggta tcagctccgg cgcgggctcc 60
 ggcgcaaaa acgcggtaag tacgggtgta atgggtggta tggtcacggc gaccgttctc 120
 gccatcttct tcgtaccggg gttcttcgtg gtggttcgtc gccgcttcag ccgcaaaaat 180
 gaagatgttg agcacaatca ttcggtagaa catcactga 219

<210> 5259
 <211> 192
 <212> DNA
 <213> Enterobacter cloacae

<400> 5259
 ccccctgagg ctggtgtttt attttgtcac agtcgaaatt tggctcgaga acgctctaata 60
 cctctctgag ctacgctaaa taccctgaca cgctactggg ttttcatcca gtgtttttta 120
 ctggcaatcc tggccacaac gagtaaaatt actcacctgc cgcttattct gtcacaggt 180
 cgtcgcccat ga 192

<210> 5260
 <211> 1038
 <212> DNA
 <213> Enterobacter cloacae

<400> 5260
 tgtcaggaat ttccctggaa gggtttactc ctgctttcgg gcgtgcgtaa catagcgcta 60
 actattttgt cttgcggact tattatgaaa aaaccagcgt ttatcatcac gatcgatacc 120
 gaaggggata atctctggca gaaccaccgg atgatcaaaa cggaaaacgc gcgctacctg 180
 gcgcggtttc aggcgctttg tgaacgcttc ggctttaagc ccgtctggct gaccaactac 240
 gagatggccg tcgaaccggg attcattgag ttcgcgaaag aggtcatagc ccgcggccag 300
 ggtgaggtgg gaatgcattt ccatgcctgg aatagccctc cggagcacga tctgaccggt 360
 gatgactggc gctggcagcc ttatctgatt gagttttcag acgaggtcat gcgtgagaaa 420
 gtgctgttca tgaccgcgtt actggaagag actttccaga caaaaatgct cagccatcgc 480
 gccggggcgt gggcatttga cagccgttac gcccggttgc tgattgagct ggggtatcag 540
 gtagattgtt ccgttacgcc gcgcgtgaac tggcgcaacg cgaaagggtgc cccgcagggt 600
 aatggcggaa cgaattacca gcattttccc gatcgccctt attttttggg cgtagacgac 660
 atttcccgcc cgggaaacag cctctcctc gaagtgcga tgagtatcca gtataaacac 720
 ccggcatggc tgaattccct gaagcagggt tacgatcgtc tgcgcggtta ataccgttct 780
 ccgtcagtta actggttacg cccgtccggc ggtaacgcgc aggagatgat taaggttgcg 840
 cagcagtgcc tggctcaggg gaatgactac gtagagttca tgctgcattc gtcggaattt 900
 atgcctggcg gcagccctac ttttaaagac caggccgcga ttgagggact gtatcaggat 960
 ctggagcagc tctttacctg gttatcagat aagaccgtgg ggatgacgct tgcggagttt 1020
 taccagtaca aaaaatag 1038

<210> 5261
 <211> 327
 <212> DNA
 <213> Enterobacter cloacae

<400> 5261
 acaacccttc cgcacgtgcg gtctcgagggt cgctgtttta ctgtttgtaa aaatcaccac 60
 gcattgcaat tctccagact cggcaaatTT tggcacatat tacccaaacc aatagttcat 120
 gacgagatga cgcagtatct cttctcgttt ttgcagcata aatcacgcgt acccctgctg 180
 catatcggtg aatggctgaa gctgagcat tgtgatgata tgataaagag attagcgttc 240
 gggatattcc ccgactcata cttcaaagggt tacagttatg atcatcgtaa ctggcggcgc 300
 gggctttatc ggcagcaata ttgttaa 327

<210> 5262
 <211> 930
 <212> DNA
 <213> Enterobacter cloacae

<400> 5262
 ccaaacgaga agaacatggt taaattcctg aatgctcgct accgccacat taccgggctg 60
 cataacattc cctacgcttc ccttcgggtc acgcgcgac tcgttgcggt tgattccatc 120
 gtgatccctt gtacggggcg ggatttcgtc gaagaggcgt tattatcagc gacctttgca 180
 gagcgttacg ccaccgacgt cagcgagatt gttatcgta gcgatcagcc tgaatccgct 240
 ttcggcgagc tgccgctaaa aaccgcggtt gtcaccctca cgcttccaaa acgtgaagag 300
 ggggtaccgt ataagcagat ctacctcagt cgtctggtga agcttaatgc tccgttgtag 360
 gcgcgcggtg aaggggtgct gatgatcgac tccgatctca acctgcttaa aatgccagag 420
 atcaacatgg cggatatgca catctactcc agcttcggtc agggcaaaat gattgccaag 480
 ctggacggtg cgccagcgga gaaagtgccg gcatattaca aagaaacggt gcgcccgtat 540
 ctggtcgatc acgttaacgg cgcgtttctt gcggccacca aaaagacctg gcgcccgtatc 600
 tgcccgtgtg ggctgacgct gttccaggat acctgggagc tgatggacga tacgcagccg 660
 ccgaccgatc agctgccgct cgctgcgctg ctggacatgc tggatgtaaa aacggttaac 720
 ctgggcgact ggatgaactg gcgggtctcc aagaagatcg gcggtcagga agccgttgtg 780
 ccgaaagaag tgattggcgc gcacgggtgtt ttcccgtttt ccgagtggca gaagtatctg 840
 gaatcgccgg ataacaaact gctgttcaaa ggtcaggact acaccgcga ggtgcgttac 900
 ctgacggacg aagagaaaaa gaatcagtaa 930

<210> 5263
 <211> 246
 <212> DNA
 <213> Enterobacter cloacae

<400> 5263
 ttcaggcatg gttcctccgt tgagatgcag aatgcaaaaa accccgcagt tgcgggggtt 60
 ttcaatacaa ggagactaaa attatattgat tttagcttct ttgtacagta cgtgctggcg 120
 tacaactgga tcgaattttt tcagttccag tttttccggc ttagtacgtt tgttcttcgt 180
 ggtgggtgtag aagtgacctg taccagcaga agaaaccagc ttgattttct tcgcgaatac 240
 ctttag 246

<210> 5264
 <211> 195
 <212> DNA
 <213> Enterobacter cloacae

<400> 5264
 tggtacgtgg cgaaggtgac gatgtctggt atcaacgttt atggcgaacg ctggagccag 60
 aatatttcga cattatcacc caggaggcgc aacgctacct gttaccgtta taaaaattta 120
 atcagtcctg agtgctgtat aaaaattgcy cagtatgagg tgttcattta tgatgcacct 180
 cttatcacgg actga 195

<210> 5265
 <211> 183
 <212> DNA
 <213> Enterobacter cloacae

<400> 5265
 ccagtatcgt cagctatggc atcatgcgtg gaatcaatcg cagatctcaa cattaacgct 60
 cccgccgggc tggcaagtca gtcgggggca gacaacacag tccggatgtg tcagcatcac 120
 ggacacatt atttctccta tggggcggca gggcgcggtt acgcgtctgc actgcccgtg 180
 tag 183

<210> 5266
 <211> 183
 <212> DNA
 <213> Enterobacter cloacae

<400> 5266
 ctctgctgggc tcataaccgc aaggctcgtcg gttcaaattcc ggcccccgca accaactctt 60
 cttaaaacaa taaacaccct gaagggtgtt tttttgtatc tggcgtttgt gaaaatgccg 120
 ggcatgatac ccggcttaat gccctacccc cgccgcgcca gcgtttcccc gtctgagaag 180
 tag 183

<210> 5267
 <211> 258
 <212> DNA
 <213> Enterobacter cloacae

<400> 5267
 aactgttcag acagacatgt cagggataaa gctgaagaaa aagggtacaac gaagaataac 60
 caagacatag gcctgccggg taagtgtgtc acaggactgt cggaaagtac gctcagagag 120
 ggtcgtttta gcatgatgca ccaccgccag ccagccttaa taatggtaat gtaccactgg 180
 gttaccagac agaccagtaa cgcatacaac ataaaactgt tttttaaaaa acgtcaggaa 240
 cgtagcctga ccttttaa 258

<210> 5268
 <211> 480
 <212> DNA
 <213> Enterobacter cloacae

<400> 5268
 tttatgaagc atctgaaaat gattgcagcc atgttactgc ttactccttt gacatcattt 60
 tcacaggaaa cagacagcgt ggaggctttg aataaatata gcaccgctct gacagagctt 120
 tttatgaagg aattgcagaa gtcacagcag gcaaaaaatc ctggcggaat ggatttggtg 180
 gctgctaacg acgctgttgc ttctgctactg agcaaaaagt tcttcatttt taaaccggct 240
 gatgaaacca gcatcaaaac ttctgctgaa aaattaaagg cactgaaaga tgataccgaa 300
 gctcttgaaa agggctacac catcattcag ccagataata taggaagcaa taacatttca 360
 tataagggtga cgacaggctc tcggatctgc tttgttcagg tcacacgcag taagtcattt 420
 tcaaatacta gaacgggttg tgtcgatagc atagattgca cggggcctga acagaaatga 480

<210> 5269
 <211> 420
 <212> DNA
 <213> Enterobacter cloacae

<220>
 <221> unsure
 <222> (37)

<220>
 <221> unsure
 <222> (44)

<220>
 <221> unsure
 <222> (107)

<400> 5269
 aggaaaataa ttggttattt tagcaatcat tgcagtnatc gccntgggtg gtacgcttac 60
 ggatttatta acaccggtga gctgagcgtt ttgcgtaaag aaatganact atacgtggat 120
 cgcattggaag cagcggagct ggacttacac gcaatcagaa gtgtagcggg gcaccgggtg 180
 cacggtgcag gtaaacagtt tgccgacctt tacagccgta tcgacgggtg aactgtgacg 240
 ctgacacccc aagatcagct gttactggca acgatgccat ttaatatcca ggatgtagaa 300
 gacatcgtaa acgagcgcgg tccaaagaca attagcggcc gtccattctg ggaagttgag 360
 ccaggcccgcc ataactatga atatggcccc caatatccgt atttcccaga ccagcgcctag 420

<210> 5270

<211> 387
 <212> DNA
 <213> Enterobacter cloacae

<400> 5270
 atgtcttgct acggcgataa aatgtttcgc cataacactg agcgagagt gctcatccat 60
 catctacagg agctttatat gcgcaaat t aagtacataa tctgtcacca gtgcgaaggc 120
 cacgggacca tggaaaaccc ggcctttgaa aatggattca cccaatcaga aatggctgag 180
 tgggagccag aaatgcgtga aaagtatttt gccggagcat tcgatgttcg ctgtgacgtt 240
 tgtgccggtg acggttaagct cagtgtacca aacgtagcgg ctatgtcttt ttcagaacga 300
 cgggttctgg cagcacggcg gcgtgatgag cgtcttcagg cagctgatga acggctgtcc 360
 cgccaggaac gagcaatggg gtactaa 387

<210> 5271
 <211> 873
 <212> DNA
 <213> Enterobacter cloacae

<400> 5271
 ggtgcgacag caaagatgaa aatgacgaag ccaaaaccgg taagccggat gaaaagaccg 60
 tttattagt agcttgcaga actgggttta tcgggtgaaa ttctttcaat tcgaactgac 120
 ggcatgcagg ggacgcttat acccgatctt accgcagggg tgagtgaagc aggccgtgtg 180
 aaaaccggca actgggtaat ctctgacaag agaacccttcg accatgtcgt tttgtgtgtt 240
 gaaagacaag atgagaacca tgatgtgttc gtaggtaaat tcatccagtt acatgtagcc 300
 gctaataaga gcctaaagat cgtcgaaatg ggcatgtga aactggtggc cataaccagc 360
 tcgattccta ccacttttaa tggggggatt aggagattta aaggggttac gtatgtgtca 420
 ctttcccaaa cagctcaaac cactatcgac ttcccgaagc gtatctacaa agagggccag 480
 gaatgtactt ctgtcaccag ccctgaccag ggtcctttcg cccgggatgt taggttgaat 540
 tgctacgggc gatgtgttgt caccggcgta aggtccccct ggcgactga ggccgcgcac 600
 ttaacgcccc gtcatgaaga aggaattccc gacgtaacga acggaatttt acttcgccgt 660
 gatatccata cactgttcga caatgaccat tgcgccataa accctgacac tatgaaaatt 720
 tacttcagcc gggaggcccc ggagttggat gatgatctcc tgaaatggca tggcgatgag 780
 atagagacga cagcatgca ggttccgggt aacatcgaaa accttcggat acgatggcaa 840
 aaatttaagg ctaaggatcg tcagcgtaaa taa 873

<210> 5272
 <211> 501
 <212> DNA
 <213> Enterobacter cloacae

<400> 5272
 tactgtagag cctttgttca ttggaaatcg tacagggagg cgcataatgga ccgcatcaag 60
 tacctgaaat ggatagctga agaataacca agtacggctc agcagctggg ggcctgggta 120
 aacagagcaa ggcactatac gcccgacatg aaagagcatc aggcaggtgt acagattcaa 180
 gaaaagggga ttgtttagag gcttagacaa agtactaatc gttatcatgg agattgtctg 240
 accatacatg tggtagcgct tccggaagaa atacaaaaca agggatggtt taagtctttt 300
 ctgaagcttt gctgtgaatc gaatccctgg tgcgatgttg taatagaaga cgtgaaaaac 360
 ccataattat taagcttttg taagaaacta aactttactg tattagatga attttaccgg 420
 aatacttaca tagtaaacac agatgccatt atgagtttac ctatcccacc cttagggaga 480
 tacgaaacct atctttatta a 501

<210> 5273
 <211> 273
 <212> DNA
 <213> Enterobacter cloacae

<400> 5273
 tgggtacaga aaaggcagtt gcttgcgctg ggcgtaagtt acccgccgaa aagcggctgg 60
 atcgaacgac tgatcggcac tgaggtatct gacgagcagt acgaacgctt tctggggcac 120
 agcacgagca agcaggctga acagatccta cgcgagagac agccagccaa ggggcttcag 180
 tatgcaaagc gagcgaagaa gctcgcttct gaaagaaaag ccacaattga tctggataac 240

gagcacctgt ctgaaatcga aaagtatcgg tag

273

<210> 5274

<211> 444

<212> DNA

<213> Enterobacter cloacae

<400> 5274

aaaccggaag	cagtataaac	acaaacaggc	ccctacagcg	taaggattgt	gatggacgat	60
aaagagcaat	ttacgaatct	tgtggcaaag	catgcctccg	gactcaccga	agagcagctg	120
gccggttacg	atgcctgttc	cctggatggg	gaatgcgtca	cgccttcata	cgagggtttc	180
cgggggtatc	gtaccgcgca	taccctggat	gaatttcttg	agatggccat	atcgctgaat	240
gccatccacc	cggatgaata	tttaacggat	atgctgctta	agcctcatga	ggtgatcggc	300
gctctggccg	atgaaggcga	ccagctgaac	aacgccaccc	cggtttattt	cttcccggat	360
accggcgtct	atgcagcggc	cgtcagtga	acccgggtgc	tcgatgcctg	gctttgctgg	420
ccatgctacc	cggcgaactg	gtaa				444

<210> 5275

<211> 408

<212> DNA

<213> Enterobacter cloacae

<400> 5275

ctgttctgtg	ctttgctcgc	cgggtgggata	gttcttgcct	gcttaaacaat	aactcaggaa	60
ggaaatctga	tggcaactga	aattgaagtc	atgactgtcg	cggagctgca	tgtcaacta	120
caacagctgg	ttgatgaggg	gcacggagat	attccggttt	gcgcgtcaga	tctccgtgcc	180
aggtatccat	ttaaggctta	taccgtgctc	agtaccgcag	gctataccga	agcgtgctg	240
attaatgtgt	ggccggatgc	ccattttaca	cgtaaagagc	ccctgcccac	taactggggg	300
aaaaaccgtg	tagcagagtg	gaacagtgat	gccgatgccg	ttcgccagtc	ctgcggggcc	360
ttcgagata	atcctcaatc	aagacaaatg	acaggtgata	atttatga		408

<210> 5276

<211> 573

<212> DNA

<213> Enterobacter cloacae

<400> 5276

gtcatgattt	cttcatcact	tttatggtgc	tctttttcac	ctatcacaca	gcaagttatg	60
aatacagagg	ctgtaatgga	cgctaccgaa	actgaagagc	tcgaaaaaat	tcgcaagaag	120
gcaatggatg	aagttacaag	tgtctttcag	gcgcttgaaa	ataagttccc	gggtattact	180
gagggcgcgag	cagctttggc	ggggctcagg	gtaggcgagc	cggcttcctt	tgggtgctctc	240
tatacgcttg	gtacaactgg	agtgtcagca	gctggcatta	cctccgggct	cgcaacagca	300
gggtctatcg	tcggtgggtg	tatggttgca	ggcattgcgg	tattggccgc	acctgtagct	360
gtgttaggga	ttggcggcta	cgcggtgggtg	aaacacagaa	aaaatgcgaa	actgacagcc	420
gcccttagtc	aggccatcca	aaagctctac	gaagttcagg	aaaggctcat	gtcgaatgcg	480
gaatatttta	aggcagaaat	tgtctggcatc	aaggcaacaa	tcgacatgct	tactaagaaa	540
gctccaaaag	gtagcctggg	cgcggtgagg	taa			573

<210> 5277

<211> 453

<212> DNA

<213> Enterobacter cloacae

<400> 5277

agagctaaaa	aggacggttt	caattatatg	aataaaacag	cgttagttat	gattctggga	60
atcctcggat	gtggtaaagc	atttgcagcc	actgaattac	agctccagca	aaaacgcgtt	120
atgcatttct	gtgccaatgc	cagccttcgg	ttgttaattg	ccggtacaac	ttatgcgaat	180
acgtctgaca	atggacgacc	agaaaaagaa	agagtggcaa	tcctgaaaaa	tgcagttgta	240
agctcaacag	cttattcaat	ggcatctccc	ggagttcaga	gggcatgat	gagtgtgggtg	300
gaagatattg	ccgatccgaa	agaattagct	cttcatcaaa	aagaggttag	acgtcttggg	360
gctagttatc	tttctgacag	cgggtgttaca	tgggcttcaa	aaaccgtttc	accatttaca	420

gcctggtgta actttaaccg ttctgaaagt taa

453

<210> 5278

<211> 204

<212> DNA

<213> Enterobacter cloacae

<400> 5278

atgcaaacc	aaaaagaaat	tacagttggc	cagatctggg	aagaagtgga	tccaagactg	60
atccggaaag	tgcgagttgt	tgaggtggcc	tcgttagaag	ggcccaaagg	catcctaatac	120
gaaaacgtgg	agtctggctg	taagaactgg	gcgtcgtcat	cccgttttaa	tggaaagcgt	180
ggggggtatc	gtcttatttc	ctga				204

<210> 5279

<211> 462

<212> DNA

<213> Enterobacter cloacae

<400> 5279

gcaacagctt	catgcgcgtt	tacaacaacg	acaacggcac	ggaaattgcc	cgtttcgatc	60
tgtctgaaga	tgccctcaacc	gaaaccgcta	tggtcttcgg	tgaactgtat	cgatcatggcg	120
ctgagtggaa	gtttaaagct	gtcggtcagg	gctttgccgg	tgacctggcg	gctcttgccct	180
cccagcacgg	cgttaacatc	taaaataacg	ctgaatcata	ccccggcaat	gccgggggttt	240
tttttggttg	cgatccgcta	tcaggagggg	ggggggcaga	aagggttcgg	gaatctcaga	300
aagcagagag	atgttaattc	tgacgtgagc	cttttaaagg	caggaaacgg	atttttctct	360
ggttgctggt	taaagcctgt	attccgtgcc	ttatatcaac	agcatgcccc	tctgatatat	420
gttacgtttg	cgacttatga	aggcacgggt	tctggaagat	aa		462

<210> 5280

<211> 210

<212> DNA

<213> Enterobacter cloacae

<400> 5280

acgagtctct	ttgagcctgg	ttacagtgac	ccatttcctg	gaccattcat	caaattgtcg	60
ctggcgatcc	cgataacggt	gttcttcctg	ctgacgaagc	cagtcgcgat	caacagcgaa	120
ttttcgggat	ccaacaaaga	gcccttgtag	tttggccatg	acaacattcc	ggtttgctta	180
gaactgttca	gacagacatg	tcagggataa				210

<210> 5281

<211> 225

<212> DNA

<213> Enterobacter cloacae

<400> 5281

gttcggctgc	ttcgcaagct	gattttcattt	ggaagaacgc	ggaagacctg	tgggggggat	60
ttcaagcata	ccgacttcgg	caagatcatt	ttgccgttta	ctctgctgcg	tcgattggag	120
tgcgactgg	agtctacacg	ggaagcatcg	ctcgatagcc	aaccagccac	gattgagttc	180
ttagaagcag	agttcagtg	tgatttcgat	gcgctgctat	cttga		225

<210> 5282

<211> 207

<212> DNA

<213> Enterobacter cloacae

<400> 5282

agggatgagg	acatgcagca	tgttacacgc	ttaaccccc	gatggatatga	tgggcttgct	60
ttcacctttt	tgtccgaccg	tcattacggt	ctgataattc	gtgaggaaca	cggatatgagc	120
aatgaagtta	cgaaagggat	gctatcggct	caggtagcgc	gaggtattgt	gcgtgactgt	180
tctgtgcttt	gctcgccggt	gggatag				207

<210> 5283
 <211> 1398
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5283
 ggtaaaca tgaagtcagtc tccttatgat gatgagttca gggccatccg ttatatattcag 60
 ctccgtggc aggatatcgc gaacgctcac gagacaatta gcagtgatat agagagcctt 120
 aaggcacagt tgaccgggct aatcagcggc actgaacttg atgaagcgga gcatctggcg 180
 cttaaagaac atcatctgcg agaaatgact ccttcagata ctgccatgca ttctactagt 240
 ctcaagacta tatatagcga ggctaaccag cgtgtatgcg gtgatattgg actgaccaca 300
 atactctcca cggatgacct ggctgttgta gatgcccgga tccagaatca tattaagaa 360
 tttaatgac gctacgcgct cgacgcctgg gattatgcta ttgctgcg atgtgggctc 420
 atagcatcca tgctggattt actttgcgct agagccccgc caaaacctac ggtgagcttt 480
 acggcagaag tggatggcat tttcaataaa caggtgcaga aagccttcaa tgccattttg 540
 ccggaggacc tgagtaaaaa actctcagaa atgttcccta taggggcacc ggacagttcg 600
 atcaccagcg atttagtggg cgcggccggt ggcgttttgt ctcccacaaa tcaccgctta 660
 cgtgctttgt cacacgatcc catactgggc attattatcg gcataaagga tatgctgaac 720
 gggacctgta cgggtggttc gaatggacag atcgtggttt atccttccag taaaggcgtt 780
 actgacgaaa caaatatttt caggctcatc gccagaatgt ttggacacct ggcacggat 840
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 ataatggaag ttttgatgcg ggttttctat gtggcgaaac aggtatcgct gggaaaagga 1080
 gcttttgagg agaccttact ggataccatg ccgttgccgc taaatccacg cttccggatg 1140
 atgcttgctt tgggttatgg aacttccagt gctgttaacg caggtaaaat gtatatcacc 1200
 ggcaatatcc tcaatgcgaa ttacgcctcc tggatgggtt tggcctggaa tgggtttcac 1260
 tcaactcaag ggtctcttta tcagcgacac ttaaagcttt gggccgggat tgaaaaggca 1320
 gaactggaac ggcttcagaa caatatagac agcatcgagg cattgaacat cagagcagga 1380
 aacttgccag tcaagtaa 1398

<210> 5284
 <211> 210
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5284
 tatgacagac tgaagccccg gatagcgctc ggcctttcca tgaataaaca gccgcttgct 60
 atgaagatca cggatccttg gcgcaaaagc gaatcccagc aggtgcatca gggcgaaaac 120
 atgttcagt aagcctgcg taticggtgta atgctcgga atttccagat cgctttcatg 180
 gtacagcagg ccatcaagca cgtgggttga 210

<210> 5285
 <211> 384
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5285
 gtccagatcg tacaccagcg gtgtgatttt acggccttca aacagctcgc ccacctcaat 60
 gcctggctta aaatgaacgg tcagggtggc cggatctata ccataagat cggcatcaaa 120
 cagcgcatgc attgttgagg tcatcaggat gccattagac ggattgtacc gggttccatg 180
 ttcaatgtgt gccgcatcca ggacaccacc attaaccxaa ccggttaccg cacaacggcc 240
 agcgaaattc tcgatgagca gagctttaa tttaccctgt gccacgccac tacgttgctg 300
 cactacgcgc tcgcagtgc caccctggat atctacgtca ggtttccgca ttgggttcgct 360
 ggtggccgct tcaacttggt ttag 384

<210> 5286
 <211> 225
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5286
 atccagcatg gatgctatga gccacatcc gcaggcaata gcataatccc aggcgtcgag 60
 cgcgtagcga tcattaaatt ctttaatatg attctggatc cgggcatcta caacagccag 120
 gtcattccgtg gagagtattg tggtcagtcc aatatcaccg catcacgct ggtagcctc 180
 gctatatata gtcttgagac tagtagaatg catggcagta tctga 225

<210> 5287

<211> 258

<212> DNA

<213> Enterobacter cloacae

<400> 5287
 tttgtgggag acaaaacgcc accggccgag ccactaaat cgctggatgat cgaactgtcc 60
 ggtgccccta tagggaacat ttctgagagt tttttactca ggtcctccgg caaaatggca 120
 ttgaaggctt tctgcacctg tttattgaaa atgccatcca cttctgccgt aaagctcacc 180
 gtaggttttg gcggggctct gacgcaaagt aaatccagca tggatgctat gagccacat 240
 ccgcaggcaa tagcataa 258

<210> 5288

<211> 195

<212> DNA

<213> Enterobacter cloacae

<400> 5288
 atagtgaag gtattgagac actgagtttg cagcttgatg agaatgaaac tatggccctt 60
 gctcaattag ttaaactctt gagctggagc gatcttcgtg gctgtgctgt gactgacgaa 120
 gaagcctggg taatgaaaag cgcaattgaa aaattacaac aggcgttaag ggaagaaggt 180
 tatgagcctc gatga 195

<210> 5289

<211> 282

<212> DNA

<213> Enterobacter cloacae

<400> 5289
 aacgtgatca atttaacacc ttgccggttg accgtaaaga aagatgcgct acatacaagt 60
 gtagcaccgt tctgtacgtg taaattcctg aatacggcga tggctgacga atacgccgcc 120
 ctgtccctct cactcttcat caaccgtaaa actgccatcc gactgtcaac aatgttagga 180
 tggtagcga ttgataatga cggtaacaag catgttagac aatgttttga gaattgccac 240
 acgcaaaagt cctcttgac tctggcaggc acattatgtt aa 282

<210> 5290

<211> 225

<212> DNA

<213> Enterobacter cloacae

<400> 5290
 cttctcatta ttggccttaa cggaaatttc gtttccctca ggaaaccagg tctgattatc 60
 agtgagcgcg aaaacggccc gcgagaacat ctgagggtgc tcgcttttca atacaaaacc 120
 gtgtcccccg gcggcattaa ctttgcgcca gatatcatta ttgtcatccc cgctgaccac 180
 caggagtcgt acctgtgggt aaagttgttt tacttctttg agtaa 225

<210> 5291

<211> 183

<212> DNA

<213> Enterobacter cloacae

<400> 5291
 tttcagggcc gttccggaag agagccaaaa atcgattacc agcaaactgt gcgggccatg 60
 atctctaatt tgtcggtagc aatcatcctc attcgtcacc acacacgcct gtttaaaactg 120
 gcaatgtgta atcagaaaat tggcgatgcc gcttgctacc aatggatggt catcaacgac 180

taa

183

<210> 5292

<211> 501

<212> DNA

<213> Enterobacter cloacae

<400> 5292

gctccatttt	ttttgatttt	aaaattgcct	catgatattg	tcaacgaatc	tcaccctttt	60
tccaacccca	cccttttgaa	attaaaggaa	attaaaatgc	tgcccgacaa	tcttgtcccg	120
gcaaagtacc	acattacgcc	tgtggaacag	ccttcgacgg	aagcagataa	agaggcgaat	180
ttcactcaag	gaaaaagaaa	actctccgac	tatgaagccg	acatattaat	tggtgtttca	240
cgcactggca	aatcccgtaa	tatggtgctg	gaagagcacg	atcgccattt	aaaagagcgt	300
ttatttcgcy	cgatcaagat	tgaagcctta	gttcacatgc	tgaatgattt	acaggccgaa	360
ggggaaatag	acgcccagac	gctaagtcaa	ataatggctg	agaaaacgca	gcaaataaat	420
gaagccggca	atgaaatttg	gcttaattta	attacgcgtg	aaaaaaacaa	tcccattttt	480
tataacctgg	gggaagatta	a				501

<210> 5293

<211> 318

<212> DNA

<213> Enterobacter cloacae

<400> 5293

tttatgaaaa	aaccactaat	cgttttaacc	gttacgttga	tgttagccgg	ttgttccacg	60
ttgaaaaccg	atcaggctat	tccactcctg	caagcggaaa	ccgctaaaat	gctgggactg	120
ggatcatcgg	atgaaataac	tgtgaccaat	gttaatggcg	cccagccgga	cgcactgggt	180
ggacaaaagc	tgtcttatcg	cgccacgacg	gaaaaagggc	gtattttcga	ttgctcatca	240
atgatgatgc	cggggatttt	aggatccgca	ccgacactca	gcgcgccaac	ctgtacacct	300
gttgtcacac	ataaataa					318

<210> 5294

<211> 282

<212> DNA

<213> Enterobacter cloacae

<400> 5294

ccatcgcgca	gaaagagacc	ggtggcgaga	atcctggagg	agaaaatccc	ggaggcgaaa	60
accctggcgg	tgagaatcct	ggtggtgaaa	accccgagg	cgaaaaccct	ggcggtgaga	120
atcctggcgg	tgaaaacccc	ggaggtgaaa	atcctggcgg	tgagaatcct	ggtggtgaaa	180
accccgagg	tgaaaacccc	ggcagcgga	agccgggcat	tttcagacc	gtggcccaaa	240
gcagcaacca	gtggaatacc	gctggcgcg	tctccacgct	ga		282

<210> 5295

<211> 477

<212> DNA

<213> Enterobacter cloacae

<400> 5295

ttacgcgtga	aaaaaacaat	cccatttttt	ataacctggg	ggaagattaa	cgtgaatgat	60
gatagcggta	ataacgttta	tttgacttta	gatgataaaa	aaagcgatga	atttatctta	120
aagcagaatc	tcgacgccct	gaaaaagata	aaaaatgacg	agatgacgcy	aattacgcag	180
gatttggttt	cgattccggc	cacgctggta	cgcctgaaat	ggcagaaccg	tcgggagatt	240
tacgccttgc	aggccaagga	ggagatatac	ggcgcggtga	tgaacgccat	tattgaacag	300
cgtcctgagc	ttaaagagaa	gatcctcggg	cgactggagg	cgaactatca	gtacctgctg	360
gcacgcgaga	cagccaccct	gcgcctgacc	cgtaaactct	cgaaggcaa	ttaccgtaca	420
tcaaacgtga	cctgtgtggc	gcttgatgaa	gaggcgccga	cggcgccctc	agagtga	477

<210> 5296

<211> 528

<212> DNA

<213> Enterobacter cloacae

<400> 5296

aatcaaaaaa	aatggagcct	acccatgaac	agcattttct	tcacgggtcat	aacgttacta	60
ttactgaccg	ctggcggtgct	tttattgatg	caagagttca	ataaaacgaa	agtgtcaaaa	120
gacgtcagtg	aaccgccgca	gcctgaattg	atgtcgaag	aggaggggga	agatcatttc	180
tccgtattga	tgaacgccgt	gacgccggtc	tggtactggc	gagtaaataca	cgaatatatc	240
gatttcctcc	atgcgacaat	taagcgaatg	aaaatggccg	aaattaatga	tacgcccggc	300
ctgttcgacg	cgcagcgccg	ctgtagcgac	cttaattcgg	cggctctataa	atattacgac	360
aatatcaaaa	agcgtgtgtc	gaatggcgag	aagggtgctg	actccgattt	agatgtatta	420
aatctgcgcc	agtgttttcg	tgagtttagc	ctggaagcct	acccggaact	ggtcgcgctg	480
gtctggcccg	agtatgcgcg	tccggatgta	gatcccaacg	aggtatag		528

<210> 5297

<211> 261

<212> DNA

<213> Enterobacter cloacae

<400> 5297

cgtctccggc	atcaggatcc	agcacagtgc	ccgcggctcg	aaaaagatat	cccagtggcg	60
aagctgaagc	ttccagctta	tgtcgatatc	ctctgtgatc	atatccgggc	tccagtaccc	120
gacatccgcc	agcgctgtc	ggcgaaagcg	ggcgatgacg	ccggagacgg	taaagaccgc	180
gccatagatc	cgctgcgttc	gcttgatgag	gccataatg	gaagaaaact	cgccccacctg	240
aatacgacca	atcagcgttg	a				261

<210> 5298

<211> 591

<212> DNA

<213> Enterobacter cloacae

<400> 5298

aagggatggt	tagtggcgac	ttcaatagtg	ttagtgactc	aggattgttt	ccttgtcagg	60
gggatgcggc	tatttttccc	ggatataatt	tgccctcagt	cgatagacag	aaacatatatt	120
gataccgacg	caaatagaata	tactgtactg	attgatagcc	gtacgccgct	ccgttttatat	180
gattacctga	tacgccatcc	ggccagaacg	agaaaaacga	tctgctgcgt	tatgctggat	240
atgcgtcctc	gagaggagga	tcttctcagt	atgaagctgt	ttatgaacac	gtcgtttacg	300
gctccggata	tggcgctcgtt	attcaatctg	gtgcttgata	tgaaaggcag	gcgtctgaca	360
accaaattggc	tgcttaactt	acggctgagt	cgacacgaag	cgataatgat	ccggttgctg	420
aaggcaggga	ggtcaatgga	agagattgca	gataagctga	atatgtcggg	taaaagcctc	480
tatcgcaagc	gaacggtgct	gtcggagcgg	ttaggggcag	ggaacttcaa	cgaggcgtgt	540
ttgttttatct	ttaaaaacaa	actgctggac	gcggttggga	acgatcccta	g	591

<210> 5299

<211> 213

<212> DNA

<213> Enterobacter cloacae

<400> 5299

agccatcacg	cttctgcatg	gcaagcagga	accgtcggaa	tgagggtttt	ccagagctta	60
caaaatgatg	gtatctctgc	tccggcgacg	atccgtttgc	taaacaacac	ctttcttcgg	120
ctggtattta	gcttttagtgc	tgtgcccttt	gtgggtattc	ctttcgccat	ctggatttat	180
atgcttgggg	acgacctcgg	cccaacgatt	atc			213

<210> 5300

<211> 333

<212> DNA

<213> Enterobacter cloacae

<400> 5300

aagcggattt	ttgatgtgac	attgccgggg	aatgtgcggc	ctgatgccct	caccccaacc	60
ctctccctca	agggagaggg	ggccgtctgt	gcaggcatta	ttttgtgggg	atccctcagc	120

2013

tcacagggag	agggcgcaaa	cactaaaaac	ggtaacgggt	gttacgggtt	tgcattctacc	180
atgggtcttaa	acacttccgc	caccgcgact	gcccccgat	ccatcacccc	gtccagattc	240
tctttattca	catacgacga	gcgtcccgcg	ccggctttcg	ccatttttgc	cgttgcttcg	300
gcgcctgct	gcgcggcctg	cgctgccgcc	tga			333

<210> 5301

<211> 363

<212> DNA

<213> Enterobacter cloacae

<400> 5301

gcaggccgct	catccagaaa	gcttccagcg	gatttccaac	ttatcgggaa	ttggtacaca	60
gggtcaaatg	caatcttatt	tatacaaaaa	tgtgctaaa	agtgttata	tagttgtttt	120
tattgtgtat	ttactatatt	ttacaaccgc	ttaaagcacc	gggcagggtg	aggggagtgt	180
gatctgactc	actatacgaa	agcggtatta	tcgatgcagc	gtgctgaaat	gcagatttat	240
agcagaatat	taatctggtg	ttgcattcaa	tgccgcataa	aatcactgtt	tttcagtcct	300
ggcgctataa	atgaaaaaaaa	ccatcagaac	ataaggaaaa	gtaattacgt	tcagggtgaa	360
tga						363

<210> 5302

<211> 264

<212> DNA

<213> Enterobacter cloacae

<400> 5302

cgtttcatac	gcggacctcg	cattcgccct	ctttttcatc	cttttgogca	ggtaaacaag	60
tttgaggact	tgcttcagag	ggaatctcaa	ttactgcata	aatatgatga	gcaggccgct	120
catccagaaa	gcttccagcg	gatttccaac	ttatcgggaa	ttggtacaca	gggtcaaatg	180
caatcttatt	tatacaaaaa	tgtgctaaa	agtgttata	tagttgtttt	tattgtgtat	240
ttactatatt	ttacaaccgc	ttaa				264

<210> 5303

<211> 339

<212> DNA

<213> Enterobacter cloacae

<400> 5303

aaacagtatg	gcgtaggtaa	aaccacaggt	ggtgtgaata	ttggtaacta	tatgcttttc	60
atcaaaaata	agaaagtcac	cattgatggg	caagaggggc	acgaaatttt	ttcaaacgtc	120
gactggaatg	gctctaaatg	ggaatcaggg	ggtgcggttc	gcagcgacgg	tatctccatt	180
atcagtgccg	caaccacagg	cacaacgacc	cctgttgcat	ttaccactgc	ggttttccca	240
ctggttacct	ctctggctat	tcaggggacc	gatacgctgg	cgattactga	cgatacatct	300
ttagatggtc	aggcaacaat	tacctgaaa	tacctttaa			339

<210> 5304

<211> 669

<212> DNA

<213> Enterobacter cloacae

<400> 5304

ctcttcagac	ggctgcatta	ttgctccttt	gagtgcgaga	agaagcatct	ggaaaagcaa	60
cgatacggtg	ttgattgtca	aatgaagcgt	ttaatttgtt	cattgccatt	actcgttgca	120
gtcagttcgc	acgtctcagc	atctgaaatg	accggcttcg	caacacagta	ttacgatgaa	180
gacggctcgc	tgacggaaat	ttcaaccata	gtgccccctt	ccccgaccat	cacgatcggc	240
aagaaaacgg	ttcagatgga	agttactcat	ctgtctcaga	ttttcagtac	atacgtggag	300
aaagacagct	ccgcgcactg	gatctgcctt	catgacgacg	atggcaccaa	ttattgggtc	360
atttcagata	acgaaatggg	tgcaggggctg	ttaaactgcg	tagccatata	cagggatggc	420
atccataaag	agtgtgtgaa	tacaacggaa	cgagtcagtg	tctcagtttc	tggtgttcca	480
ttgttaaatg	ccactcacgg	ggatttagtt	gaattgttcg	gcaaaaaaac	aatcggaac	540
agaaaaaaga	tctgtcttta	tcaggagaca	cctgtacagg	atggatttgt	tcagaacaat	600
accgtctctt	attactttga	tggcgaaaaa	ttgcgcggcg	taattatcgg	gcaataaacc	660

agtaactag

669

<210> 5305

<211> 345

<212> DNA

<213> Enterobacter cloacae

<400> 5305

cgcgaggca	gcatgacata	tgaggaatta	ataaattcgc	cagccggtga	gtttgtcatg	60
tttgccagca	aggatggaaa	agttcgcatt	gaatgccgct	tcgaaagcga	tacgtttgtg	120
ctctcacagg	ccacgatctg	tgagttatac	ggcaaagcca	aagctacgat	cagcgggcat	180
atcaagaata	tttttgatga	gggtgaactg	gtcgaaaatt	cagttgttcg	gttttaccga	240
acaactgccca	gcgatggtaa	agtatacaac	gttcaatatt	ttagcctgcc	cgttattctc	300
accatcggct	atcgtcggct	tattaaaaatg	ggaaaagcag	gctaa		345

<210> 5306

<211> 924

<212> DNA

<213> Enterobacter cloacae

<400> 5306

tttccgtcgg	tatatacctt	cggcgaattc	tgcgctcgcg	acagattatc	caattttattg	60
ttgccagttt	ctgatgccag	gataatctgt	aaacgttggg	tatcagatga	gaaaattaaa	120
atggatattg	tacttttccc	tggtcagaac	gcccgcgcgt	gggctgaaac	aatgataaat	180
cttgaagccc	gcaagctcat	caatactgcg	aatattgtcg	gagggcaaca	tctcagcgac	240
ggactcgcac	ggattaaatt	tatggatgat	attcggcagt	ttgtgatgca	acaatttagt	300
gctacccggg	cagccagaag	tgatgaggag	tgcatggaat	gcctgaaaaa	catccgggct	360
gagaacgaaa	gtcttcttga	gcaaagcaga	atgcttcgct	cccgtacagc	tcagcttttt	420
gctcagattg	aactgggtta	agaaaataac	aaagtcgtcg	gttacgttat	ctcatcgatt	480
aaggttgtgc	tttcagggtt	acagatttgt	gcagggtgtg	gtgcaatgat	gacaaatgat	540
ccagtgggtg	cgcttgagg	agcgattctg	gttatggatg	gtgcaaatgc	catttcaaaa	600
gaaattaaca	gaacgcttca	acatcaacca	aactccgaag	gtatgctggc	agatggcgctc	660
atggatatcg	ctcagtttat	gggattttaa	cgtgaatcag	cacttggggg	attcaatagc	720
gtaagcctgg	cagcaagcgt	ctatacggta	tttggcgcca	tccggaaacc	cgaatcatgg	780
cgtctgtttc	gttatctccc	gctggatttc	taccgcaaag	tcgacggaat	gaatcgcgca	840
gcgctcacta	tgaaaattgt	cggtctgggt	gtctctgcaa	aagtctcggt	tgattttaatt	900
tctaattgcgt	ctggacagaa	ctaa				924

<210> 5307

<211> 885

<212> DNA

<213> Enterobacter cloacae

<400> 5307

tcttccgccca	aaaatacagc	taaatctact	ttcagagtta	ataacatgta	taaatatctt	60
ccctcagaaa	gaatcgatat	acttgaaaat	aacttaatat	gttttaataa	ccctttaaat	120
tttaacgacc	catttgaatt	caatacttct	tttaacttta	gtagctttga	atccaattta	180
tacgattcgt	taagcactgt	agaccttctt	aaagaatttc	cagctgaatt	attaaatcag	240
attgaaaaac	tgccataaga	aattgtcagc	aatatactta	aagatgcaaa	aaaagcaatg	300
ctctcaatgt	ataaaaaaga	aaaagaaaat	ataataagag	cagcagatac	tacaatgcaa	360
agttttaact	caaagttgat	aggaataacg	agaattctat	cattaacaga	aaccctacg	420
aatattttga	tgtggggaca	ctacgcacag	gccacagtg	ggtttattat	tgagtttgat	480
atcaatcatc	catttttctc	acaacgtcgc	ggccaaaaag	gtgaatttgg	ttatttacga	540
aaagtcatat	atcagaaaga	atatccattc	ttggatccat	tctcaggcga	tcaataaat	600
catttcctaa	taaaaagcaa	agactgggaa	tatgaacatg	aatggcgaat	gttgttacca	660
caggccaatt	ctggtaaaaac	aattaatgta	tgtgaaaaag	agtttgatct	ctatgaacta	720
ccatccgatg	ctatcaaaac	aataattttt	ggttgcaata	cctcagaaca	ttttaaaact	780
aaaatgttca	ggttaataag	ttcacgaacc	gactatgaac	atatcagttt	tatacaggct	840
aaaaaatcaa	attcaagatt	tgagattgta	ttagaccctg	tataa		885

<210> 5308

<211> 189
 <212> DNA
 <213> Enterobacter cloacae

<400> 5308
 cttaccattc aaaatgggaa tgctgaagaa ctttgcctgc ttaaaaagaa agttatcggt 60
 gcgagatata tgtggtatga attgatatta aaaaagtata aagttgattt atggttgttc 120
 ttccatttta agaacaataa tgacataaaa aatgtatcaa gtatcaaaat ggtgaatatc 180
 gttaaataa 189

<210> 5309
 <211> 753
 <212> DNA
 <213> Enterobacter cloacae

<400> 5309
 gcaatgatgc ttttgccgcg tctctatgcg cgactctgcg cgcgccaggc cgggcgccacg 60
 ctgctggcaa accggatcac gcaaaactac agccagttta tgcgctgccc ggaggccgat 120
 gttccggctg attttctgca tcagaatgcg catgagctga gcgggtttta cttcgtggag 180
 cagatcttcc cgcccgcgct ttgggcgcgc aacgttcggt ttgatctgca cgggtacgtg 240
 gcgcagtga cgcgggagca ggcattttac agttcatctc gcaccctgct actgggcatg 300
 cgctgggcgg gctttggtct gatcggtgat cgcgtgctcg ccaccgcgcc agccgatgtg 360
 cgctttcagt ttattaccgc tcaccctgcg ctgcataagc tgatggccgc gcacgaaggc 420
 cgacgcgcc gctcgttttt cgcccctcac cgctggtga cgggtgctgct gatggacgaa 480
 cgcctgccgg atgcgccgct gttctccacc caggcagggg atcaaaaggc gtggttaacg 540
 gacgtctcaa cgcgggtttt atcgcgctat ggctacagcg tccgaacgct gctgccgatc 600
 tgttcgtgac acgcggcgga gtttgggctg gagagtcagg cgtatgcgcc ggaggattac 660
 cgtcaggccg ccgccgacac gctgaacgcg ctgcgcaaaa cccccacgct ctggagtgc 720
 tgggatgatc tttcagtgat ttatcatgga tga 753

<210> 5310
 <211> 363
 <212> DNA
 <213> Enterobacter cloacae

<400> 5310
 tccacgttac tttccagaag aaaaggtagt ggcattgaaca atattgaaac gcagttactt 60
 gaatcaggtt tcaccgtaaa agaattagcg tatctgaacc gaaacattag ccgttatggt 120
 tcatccctgc tcgaggtagt gcttgagttt ggttaagcgt ttatcatggt tctgtgtatt 180
 actgcgactg tggccctgat tttcctggcg cttctttttt tcgctgaaca ttataatatt 240
 gtttccggtg gcattttctt tttcatcgta ttgattattg cctgggtttt tcaacccccg 300
 atcattacct acaaagcctg gcgcttcaga aagaaatata ttagttctgt ccagacgcat 360
 tag 363

<210> 5311
 <211> 207
 <212> DNA
 <213> Enterobacter cloacae

<400> 5311
 agatatcttg ctcttgtagg tacgtacatg tcaacagcta aacgcgaccc taatcagtca 60
 aaatccggaa aagcaccaac ttttcagatt cgtattacgc cggagttgaa ggcgcagttt 120
 gaggtgctgc cgaaggctga agggatgagt ttggggaatt ggttaaaaaa ttaggtcgca 180
 aatgaattaa atagattaaa aaagtag 207

<210> 5312
 <211> 192
 <212> DNA
 <213> Enterobacter cloacae

<400> 5312

atcagcaatg	acgcgtgtcg	cttgagggtta	aaaaatgcgt	ttagtcgggt	acactatcgg	60
aaatacgaga	tgagaatgac	gaatgaaaaa	gaaaacatcg	ctcagcgagg	aggatcaggc	120
tctcttccgc	cagctgatga	ccgggacgcg	tcaaatacacg	cacgacacca	ttgtccatcg	180
cccgcagcgt	aa					192

<210> 5313

<211> 243

<212> DNA

<213> Enterobacter cloacae

<400> 5313

tcagacgctc	cagtacggtg	cggttgctgcg	tggagagcgg	ttgttcgcct	ggcgtgttgg	60
gcgttacggg	gccttcaccc	ggaggggcgg	gaggcggtacc	tgaaatgggc	tgcatacgta	120
aaaatcctta	aagtcaaaact	ctgcgttaacc	ggcgaggagat	atatgcccgg	cggcgagatt	180
atggcacact	tggttaggttt	acttcctctc	aaacagggtac	tcagacgtga	aaatcctcgt	240
tga						243

<210> 5314

<211> 222

<212> DNA

<213> Enterobacter cloacae

<400> 5314

gacgttgaat	tccaccggcc	gtcactatct	cttcagggcg	tttcatgcat	gcagatcggt	60
ctacgcaacg	tgctaccacg	cggtatgtga	ttcagtgccg	actttttctc	ttacaacacg	120
gggcagaaag	cgccctcgtc	gaagaacttt	ccacacgcct	tggtctggcg	ctgggggatgg	180
acagcggtga	gagctccatc	tcgtcaaatg	ccattgtact	ga		222

<210> 5315

<211> 354

<212> DNA

<213> Enterobacter cloacae

<400> 5315

ggtttccgca	aaggtgcgcc	gttaactatc	cataagataa	atthttccggg	gcggctggcg	60
acgtcgtcag	gcgccccctt	aacgctggaa	agtcttatgg	ccccttcacc	ccgaagccgc	120
tcggctgaac	gtctggttga	catcattatt	gccctgcacc	gcaacggaag	cgtaaatcgc	180
cgcatctga	tgcaaaaatt	tggtattacc	gaacgcacgg	tgtaccgcga	tttgcaggcg	240
ctttccccga	ttattgaaca	cgacggcaaa	ggcgctatc	agctgctgcc	tgcgatcag	300
acctgccgct	gcgtgcactg	ccctgaagcg	aacgacgaaa	ccccgcaggg	gtag	354

<210> 5316

<211> 198

<212> DNA

<213> Enterobacter cloacae

<400> 5316

cgatacccca	cgccgtgggc	tgtgcagcgc	agtgtgatac	cgacaccatg	ctggcgctca	60
agcaccagct	cgaacttttg	cgccaacagc	ttcatcgccg	gtaaggctat	actttacgcg	120
cctgatthta	acttaataca	tcgcgcgcta	tttaatagt	catataaacg	taagatgagg	180
aacctgccat	gtcttttag					198

<210> 5317

<211> 204

<212> DNA

<213> Enterobacter cloacae

<400> 5317

agtatagcct	tacgcgcgat	gaagctgttg	gcgcaaaaagt	tcgagctggg	gcttgagcgc	60
cagcatgggt	tcggtatcac	actgcgctgc	acagcccacg	gcgtggggta	tcgtcacggc	120
ctgctgtttg	agcgcgccgac	ccgcgtcgct	cagggtgacg	gcgacctgac	gctcatcctg	180

acgggaacgc tggcggaaga ttaa

204

<210> 5318

<211> 1626

<212> DNA

<213> Enterobacter cloacae

<400> 5318

tgccgcttta	gcggtactca	ttgtctctca	aggaaaacaa	tgatgattag	ctcatcgcat	60
catacccgcg	aacagtttga	acactgtctg	gcggcgatcc	gtcaggcgctc	tggtgaaatt	120
ttactttctgt	tgaatgtaca	tgttttctgaa	ggaaaagatc	cacgctgggt	tctggagcaa	180
ctggatagcg	cccgccctggg	gctgggcggg	tggggcgctg	tagccaggaa	gctgaacctg	240
aatgatgcgg	aaatgacggc	ctttacgctg	caattacgct	tgcttcagca	gcgtgttccc	300
cagtatgaaa	gcgggcagga	tgtcagcgaa	aatcagctga	ttgcggcgat	gcgcttcgtc	360
acctcccttg	aatatctgcg	tctgcaacag	cccctcctga	cctacgaaac	cgggagggtg	420
ccagagaagg	agagccagct	tcaggcgag	aaacaggtgc	gtgccattga	gctgatgatt	480
aaagggctga	tacagcaggc	gtggcccagc	ccggtgcggc	tgaataatca	tcttaagacg	540
ttgtttaacg	ctgaacgcgt	gcgtcgctgg	ctgaaaaacg	gtgaaattaa	tgatgttctg	600
agcggcatgt	tgttcagcga	actggcccag	ctgctggtag	ataaaaaaga	atttagccgc	660
tactacgcgc	cgctgtttta	cgccccggac	atgctgacac	tgctggtaga	gccccgcaaa	720
accctgcaaa	ccttcctcga	agatattcga	caaatccgca	acagcatcac	cgtgcagcag	780
ccgttaagcg	gagcgcaaat	ccagctgctc	gactgctatt	acacgcagat	caccgcgtcc	840
gttcagcgcg	cgtttgagga	agggcggaca	gcggttaacc	cggcggcgct	gatggcggtg	900
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ggcgatcttt	ttgaagtgcg	cgacagtata	gaaaaaccga	ctcagcgctgc	cacgcgtacg	1020
ccagagcagc	gcgaacagct	gatttccggc	gtgctgtggg	gagcggttgg	cgtgatggtt	1080
atcgcgattg	tcgtgggggg	attctggctg	gtgaacagca	gtaaaccgca	gccggctgtg	1140
gccagtacgg	catctccgcg	accggtgcag	gagatgcgcg	aaacgccttc	ctcgcgagaa	1200
acgctgacgc	ggatgggtgt	cacctgggat	gaaaacaact	tccgttcagc	gattagccgc	1260
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acggaggagg	cgttgtcggc	aggctacgac	gatgtgctgg	aagtaatggt	gcgctaccgc	1380
ctgcaaatga	cagagcaaaa	gccctgccga	cgctttatta	atacgcttag	ccatgcgatg	1440
gcgaacgggg	aatcgctgac	gcctatgcgt	aagcagtacc	tgaaagcatt	ctgtaccgtc	1500
cctgcggtgg	tgaaacgcca	gcagcacgac	gccgatatgg	caacgcgcgg	cgcgaagacg	1560
cagcccgatg	ccagcacaaa	aaaatggcag	tccatccaga	ctgccattta	tgaggtgatt	1620
cgtaa						1626

<210> 5319

<211> 429

<212> DNA

<213> Enterobacter cloacae

<220>

<221> unsure

<222> (34)

<220>

<221> unsure

<222> (282)

<400> 5319

cattgcgtag	attatatata	tgtaagattt	gacnaaaata	gcattttttca	aaaacattac	60
ctacttaaga	aaagagatgt	atttaaaggg	aaagctcatc	ttgatacaga	agtaatggct	120
gattgggtag	atactcaaaa	agaaattaat	ttattttactc	tggattcgct	cagcaatatc	180
aataatacag	atgaatttaa	caggaaagggt	aacgaaagat	taaatgaaat	atacgaatct	240
cgccgggtac	atggtaaaga	tattaaaaag	aacaggaaaa	tngaacttga	ttcatttagga	300
cgaactcatg	ttgctaattg	aagatctgaa	cccatacttc	cttcattccag	taatgttctg	360
cttttgcctg	gccgggagga	gaaacaaaga	tggttaaaag	gtaagaagaa	gactgaggac	420
gcagaataa						429

<210> 5320

<211> 333
 <212> DNA
 <213> Enterobacter cloacae

<400> 5320
 aaagcgctac gcgttcgcct gttactacgg aaaaagatta gagatatgaa aatgcacgta 60
 aagatcaccg caaaactgat ggccaaaatg caccttggtc tcgcgctggg atgggcgata 120
 ctgactattc ctaccctgct gtgggtgaaa aacagcattc tgtgggtgtc gttaatgagc 180
 atttacgcca tcgtgatttc ccatctggct gcgtacagcg ccgcccattg agaaaaagcg 240
 gccagcaagg cgatggataa aagcgaaggc gccagccaga aagccaatca aaccgccaac 300
 agccttcaag gcaatgcgcg tcaggcacat taa 333

<210> 5321
 <211> 243
 <212> DNA
 <213> Enterobacter cloacae

<400> 5321
 atgatttgct atttgttggg taagccggag aggaaagagt gggaattggt cccggatatc 60
 aatcaccgag tcattaaact cagccagata gaaaaagtta ctttcgacag aagaaaggag 120
 atgatggttt cgaaacgtct taaggccaaa gactatcgaa cggtttccac gggatttaac 180
 gtcctgagct ctaagccagg gctgataact ttggccatag cccactccta tgccgtcacc 240
 tag 243

<210> 5322
 <211> 204
 <212> DNA
 <213> Enterobacter cloacae

<400> 5322
 ggcgccatag catcctggat ctggcacgga agatgtatcg aaaagcgcct gacacgttcc 60
 agatcgaagt tcaggagtgg atttccgata gccgttcgtc cacgtgaaaa gccgggcagg 120
 gaaaaccgct acccgggcgc cgcgggtaag aacgtaaatc aatcaccata cggccacgga 180
 tctggccctg ttccatctct ttaa 204

<210> 5323
 <211> 312
 <212> DNA
 <213> Enterobacter cloacae

<400> 5323
 tgcaatatct gtttaacagg tgatcaacat ttgtgcagcg tagttcactt ttggtgcagt 60
 gtgcaggctg aagggtatct atttggtgaa tacgtcagcc tcttcacatt ttttggtgaa 120
 atgaaagctc tggggaaaaa agaggagacc ttacatggcg aatttgccct ggcgggtcag 180
 cgtgcgcctg atggctctcg caaaaaaat agcgatggtc atcgggatca ttgtgctcgt 240
 tctgctttcg gtgcggggtt atctttcgca gcaggggcca gccctgcac actggcacac 300
 ctggcgggct ga 312

<210> 5324
 <211> 336
 <212> DNA
 <213> Enterobacter cloacae

<400> 5324
 atttgtcgtt ttttcataag gcattggcgt cggccaggag atcaattcca caatactgcc 60
 ccaggggggtc tgtccatagc agaaagcatt cccttcacct tgctcatccg gaaacgtgag 120
 cggctttggc gcggtaaaac tctccccgcc ggcagcgggtg aaagcggcta tcgccttacc 180
 aaaatcatca acataaacag caaaatgctg gaggcctaaag tcgctggcgc gggcgggcat 240
 tccctgttca gggccatgca tttcgaaaag ttcaatgccg ggtccatggg gcataacaag 300
 catgcgaatg gcgtgaattt ttgtgccggg aaataa 336

<210> 5325

<211> 534

<212> DNA

<213> Enterobacter cloacae

<400> 5325

caggagttta	ctatgccatc	gtcagtaagg	ggcatcgacc	atatcggtat	tacggtgccc	60
gacattgaaa	aagccaccct	atTTTTtgaa	cgcgctttcg	gcgcacaggt	tttatatcat	120
tctgtcgatg	cgaaaaccga	taatattgat	caggccgccc	agcagcacac	cttaaaatta	180
tttcccggca	caaaaattca	cgccattcgc	atgcttggtta	tgcccatgg	acccggcatt	240
gaacttttcg	aaatgcatgg	ccctgaacag	ggaatgcccg	cccgcgccag	cgactttggc	300
ctccagcatt	ttgctgttta	tggtgatgat	tttgataagg	cgatagccgc	tttcaccgct	360
gccggcgggg	agatgtttac	cgcgccaaag	ccgctcacgt	ttccggatga	gcaagggtgaa	420
gggaatgctt	tctgctatgg	acagaccccc	tggggcagta	ttgtggaatt	gatctcctgg	480
ccgacgcccc	tgccttatga	aaaaacgaca	aatttacgcc	gctggaaacc	ctga	534

<210> 5326

<211> 207

<212> DNA

<213> Enterobacter cloacae

<400> 5326

ggtgtgcagt	ttctcactgg	taataaacat	ccgaacagtc	acgtcccag	taggcgttac	60
cagtttctgc	cggaacgagt	gaaaggcggc	ccggaaagcg	ttcggttcag	tactcacatt	120
cctgaaaata	ttgatgtaca	gcaggtaaca	ttccgtcagt	gtcatacccc	gggtgaggag	180
tacactcatc	actccgtttg	tcagtga				207

<210> 5327

<211> 252

<212> DNA

<213> Enterobacter cloacae

<400> 5327

cggtatgtac	catatcagat	gtatcctgag	aaacatcata	tattaacaat	agcatatatt	60
gcgtttgtat	caacgcttat	attcattttg	agaacatggt	cgcaattagt	taattatctc	120
gaagtaacgg	aaatatgtca	gatattatat	tgtgattatt	attgtgtggg	tattaatgat	180
gttgttcatt	atttaaaca	aaaaagactg	agggaccgtt	atccggaaaa	tggtgtatcg	240
ccaggaggat	aa					252

<210> 5328

<211> 849

<212> DNA

<213> Enterobacter cloacae

<400> 5328

gatttcggag	aaaaaaagat	gcgttatatacc	cgaaccagca	ctgcaactga	tgctactgat	60
acactcagac	aataccaggc	tgacttgctg	acaggtcctt	gctggatgtc	ggtatggcca	120
ctgatagagc	ggctactgag	tcgtgagaat	gaaatgcagt	cggtctggca	gaatattgcc	180
cgtcaggcgc	taacctggca	gcaatgctat	tgtcttctgg	agcaaatcat	actggcgggc	240
cgtttcagta	gacctgatat	cgtttcccgga	ttgaaagagg	attatcgcca	gcttgaagaa	300
ctgaaccgga	ctatcagtaa	ggaggccggt	gaactggcac	agaagatatt	ggtccgagat	360
gcgatcctga	accggaacgc	attcacactt	gagagaacca	cgcacatcgt	ggaactgatg	420
gagatggctg	aagataatga	tgggctttac	cgttattatc	ttcatgaaac	actcgatggc	480
ctgacctgtc	gttatgacgg	aaaatactgg	ccgggactcc	ctggcgctcct	gcaggttata	540
gcaaggggagc	acccggaaat	tgatgtctta	tcagaaagcg	atcgggccat	cattaacggg	600
cgcggcaaaa	tgtctcccga	ttatctccgc	gaattattca	gtagcatcga	gaacgtcagg	660
cagggtccat	ggggtctgcc	gaaagaattt	acgttgacgg	acagtgcct	ggctacgtg	720
gccactgtaa	cactggatca	tactgaagtg	ttctccgctg	atacggtaaa	agtagcccg	780
agtgaattca	gcaaaaagagg	agagcgggga	gcatggccat	ttaagccact	gaaggcagtc	840
gatatgtag						849

<210> 5329
 <211> 1740
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5329
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 tttcttttacg aaatggaaga tcgttttcagt gccgataaaa aaagactccg ggtggccact 120
 gaactgctcg agttactcga gaccgatcaa gttctcagga gagaagcatt tgaggacatc 180
 cccgctcaac tgggtgactct tctggacaga gatttgctgg ttgaccccac tcgcagccccg 240
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 gccagttata tcactgaggc tcttgagatg cttgaacagg aactgtttgc atggccccct 360
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 cttaacacgc aaggaccac actgcagttc aacggatgtg tgttcatgcc acttgatgaa 660
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 aaccccttcc acgggatcac ggaaaagaaa gtatacacag ccattgataa tcagttgaaa 1680
 aacgggacgc tttcccgtag cgatgctcgt ttgatagcat ggctcaatgc ccaccactga 1740

<210> 5330
 <211> 225
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5330
 gctcagcagg atttacttaa catcttacgg accattttct tcttttttat tccggactgg 60
 gaattcagta tgtaccccaa tgaatcagcg atctggatta tttatccgca aaaaaacatg 120
 tcatataaag taaggggttt tattgatttt attgatttta ttgattttat tgattttatt 180
 atcgatgaaa tcggaactac tccttactgg aagcacggaa agtaa 225

<210> 5331
 <211> 246
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5331
 accttactga tgccgctgaa acatcagcgg cattccttat ttaatcaccg gcgcccggcg 60
 aggcaatccg cttactgctg cataaatccc ttttgtcatt attccttctt aactaatggt 120
 tcggcacatc ggttaacgcc attcaacgta accagcgtca gaagtaaagt tgattttacgt 180
 attacaggat taaactatgt caaagaaact ttttggtgcc cccccaaccc tgacagacgc 240
 cagtaa 246

<210> 5332
 <211> 519

<212> DNA

<213> Enterobacter cloacae

<400> 5332

gaaacctgtt	gtaccagggc	acagcaaaaa	caccaaattct	tatccagtgt	taaacatcac	60
tgttatgcag	gtggtaagga	gaacctgatg	aaactattta	cgattgggtt	cacacaattct	120
tcggcggagg	atTTTTTTac	gcgtctgaag	gaatccggag	caagacgtat	tctggatgtg	180
cgtctcaata	atcgtctctca	gctggcaggt	tttgcaaaac	aggacgatct	gaagttcttt	240
gcccgtactc	tgtgtgatat	cgattacgca	catatgccag	atcttgcccc	gacgcgggaa	300
atgtttgagc	gatacaaatt	acagaaagga	gactgggata	tatattcttc	ggatttcac	360
gatctgatta	caaaaagaca	tatcgaaacg	ctcgaaaaga	gtcagtttgc	tgatgcttgc	420
ttattgtgta	gcgaacataa	accacatcat	tgccacagac	ggctgggtgc	tgagtacctg	480
gcagataaat	ggcctgatgt	cactatcatg	catttatag			519

<210> 5333

<211> 204

<212> DNA

<213> Enterobacter cloacae

<400> 5333

cgcggttctgt	gtgccgttct	gacctgggac	tgcgcagcgg	tagatgcgac	cacggagatt	60
aaactgggtgc	tgcgctcgc	tggcaccocg	atcgacatag	ctatcgccgg	gcacgcaatt	120
gtcgccggtg	ccgtgctggt	gacgaataat	gcgctggagt	ttgagaggat	atcgaccttg	180
gtacctgagg	actgggttaa	ctag				204

<210> 5334

<211> 210

<212> DNA

<213> Enterobacter cloacae

<400> 5334

ataatgttca	atgtcgcccg	caattttccc	actgacagga	tcaatccatt	ttgcggattc	60
tataacatca	tcaaaaagtt	cgaccctgat	ggcctgatgt	tcggaatcgg	cagggaatat	120
atcaataacg	tcaccgcgaa	cccggaacat	cgcccgctcc	agagttttgt	ctgtacgggc	180
atactgcaga	cgtgccagtt	gatgaattaa				210

<210> 5335

<211> 492

<212> DNA

<213> Enterobacter cloacae

<400> 5335

aggacattta	aattgaacag	aatgacagga	ctcgctgttt	tatgcctctc	gctgatggga	60
tgacgtgccg	tgccatcaga	aaacagtgcg	cagtacctca	gaacggaaat	gcagtcgcca	120
gtatcagggg	caaccataat	taccgtaact	gcggacagcc	ttatgaaaca	agacaatata	180
cataacgcta	tactgtatgc	acttcgaccg	atgcctggaa	aagcattcac	ctctgagctg	240
gacagaaaat	ttgccgcagc	gacgatgtat	attgatttgt	ctccgggtga	aaaaagcaga	300
acggccgaga	tcagtgggtga	gataaattac	tatgatcacg	agcgatacgt	gaatgctcgc	360
ctggtaggag	acagtatcag	gacaataccg	attgcaccaa	agaccatccc	gcttacactg	420
aataaaccat	tctcaatcaa	tctgccacaa	ggtattcact	attcagtcac	gctgacggac	480
agccagcctt	aa					492

<210> 5336

<211> 411

<212> DNA

<213> Enterobacter cloacae

<400> 5336

aggaaacaat	ccatgtccaa	tccagttatt	tcaggcaatg	gcattcttctc	tcacgtcttt	60
atcgggtgctg	tagatgttca	aaagtcgggt	gagttttatg	acgccacttt	aggtgcactc	120
ggtatcaaca	accttggtcc	ttttggtaat	ggctgggtgt	tgtttgccg	tgacaagccg	180

gctttcatca	ttgcccgtcc	tggcaatggt	gaagcgccat	ccagcaatgg	tgtgacaatt	240
ggctttgctg	ccgccacgcc	tgtggaagtt	gacgctttcc	atgccgcagg	cctggctgct	300
ggcgggactg	atgaaggcca	accgggtcct	cgtggtcac	tgccagggtg	ttatgctgcc	360
tacctgctg	atccggctgg	taacaagatc	tgctcctata	ccttcactctg	a	411

<210> 5337

<211> 195

<212> DNA

<213> Enterobacter cloacae

<400> 5337

acgctgacta	ccgcaggcag	gactttttca	agcatcgccg	caaggctggg	aatggcttct	60
tgtccaggca	cctgcgaagg	cagtgccgca	ctggcgggga	aggacgccga	gagagataac	120
ccgacactta	acgctaaggc	gctcaacagc	tggttttttt	tcttcactga	tgctgactct	180
cgtatcctgg	aatga					195

<210> 5338

<211> 216

<212> DNA

<213> Enterobacter cloacae

<400> 5338

tggttatgaaa	gggagagatt	ttatcagatt	tcgttatcgg	aaaacatgcc	tggtcaacgc	60
cgcgcaaata	accttaaaag	taaattaaat	gttatcaaaa	tgatgttggt	ttgggtggcg	120
ggcagggtgt	attgtaaccc	cctcttaatt	cgttggtgcc	tacagcccga	tagtattcag	180
gtgaagggtga	aagacgtgcg	acctcaaatt	ctttag			216

<210> 5339

<211> 234

<212> DNA

<213> Enterobacter cloacae

<400> 5339

gtcgtccccc	cctacgccc	tgtgaaacgc	atcaagattc	aaccagcagc	cagcctcttc	60
ccgcagcaag	tgctgatgcg	ttgtctcatg	cagctgccgc	tggtctataac	ggctcaggga	120
gaaatggaac	tgtccctgca	actgatggga	gccaaacgtc	agctcgccgg	tgctgcagcg	180
caaaccgttc	tccgtcgcca	agatatacgg	cgtctgcac	tcttcacagc	gtaa	234

<210> 5340

<211> 234

<212> DNA

<213> Enterobacter cloacae

<400> 5340

acttctgaag	aagagaaaat	gaaacaacaa	ctatcgactg	ccagtgacta	caacgaggcc	60
tgcaatctgt	tacgttccgg	ctacgtgaaa	catgttcgtc	ttggctggaa	tgtaggaagt	120
gatgagttct	ttcgaattgc	gtctgactgg	tgtgataacc	gtgcaaaaat	aaagaaagaa	180
ggggataatt	tcattatttc	gctgaaaggc	ttcccgaattc	ctcctcaaca	ttaa	234

<210> 5341

<211> 285

<212> DNA

<213> Enterobacter cloacae

<400> 5341

attaacacag	tggtccgaaa	ggatgtgaca	atcatgggta	ctgcgggttt	aaacgttaaa	60
attgatgaag	cgctaaaaga	aagacttcgc	cactatgcgg	aagacaataa	tgagaattta	120
agcgtgacca	cagagaaact	gctgctgctg	gcatttgaa	cagtagaaga	ggcgggagta	180
tcggaagagg	atgttgataa	tcagcatacg	gaagaagaga	gcgtaactcc	atttactcct	240
aaagaaatca	aagcactacg	taaacttctg	aagaagagaa	aatga		285

<210> 5342
 <211> 216
 <212> DNA
 <213> Enterobacter cloacae

<400> 5342
 acagttacga aacagttgat aaaggctcgt actggcggtg cgtttaagca tgtccacttc 60
 cagttgacgac aacatatcca tagagccaag cgggctaata tgtgtaatca agtgagctcc 120
 ttatgggacg attatcgtct tccctgttg attacaatag ccctggctta tgacgtttca 180
 caacacttcg ggcggaatac cgcccgcata ttgtga 216

<210> 5343
 <211> 261
 <212> DNA
 <213> Enterobacter cloacae

<400> 5343
 agtatcttcc accacttttg gcttatgccc caaaccacgt tccccacgcc cgtcaatgtt 60
 gtgttcctgc acggtgagag aaccgggtcac tccttcatat acttttcccg tcaactataaa 120
 acggcttctg gccgtaccaa aaccaaacac aaatctctca ttctgattac cctacagggtg 180
 ctgtacagaa tgaaccaggc gaaagctatg tttcaggagt gcaacaatga gtacattaag 240
 ccacgcggcg agcagcgctg a 261

<210> 5344
 <211> 243
 <212> DNA
 <213> Enterobacter cloacae

<400> 5344
 cgtttcacaa cacttcgggc ggaataccgc ccgcatattg tgaaaatatt tatcttactg 60
 gcgcacaagt cgtccggtgg caggcacaaa atcgggtattg gtgcgccacg ggttgatatac 120
 cagaccgccg cgacgggtgt agcgggcgta aacgctcaac ttttcgggct ggcagaaacg 180
 ctggatgtcg ttgaagatgc gctccacgca ctgctcgtgg aattcgttgt gatgacggaa 240
 tga 243

<210> 5345
 <211> 183
 <212> DNA
 <213> Enterobacter cloacae

<400> 5345
 ggtaatcaga atgagagatt tgtgttttgt tttggtacgg ccagaagccg ttttatagtg 60
 acgggaaaag tatatgaagg agtgaccggt tctctcaccg tgcaggaaca caacattgac 120
 gggcgtgggg aacgtggttt ggggcataag cccaaagtgg tggaagatac ttcacggaat 180
 tga 183

<210> 5346
 <211> 234
 <212> DNA
 <213> Enterobacter cloacae

<400> 5346
 tccactttgc ttcactcctga agccttcctg cggcgtcatc ctgacgtgtc cctggtaaga 60
 aacgccatca tcctgatgtt cgtttctcgt gtcggcatcc tgtcgacaca gatagaatcc 120
 gctattctgc ttcgtcttac aaccacctt gtgagcaatg taagccaggc gaaacggggg 180
 atttcctttc agaaaaccac taacttattg aaagagaagt taatattaat ctga 234

<210> 5347
 <211> 210
 <212> DNA
 <213> Enterobacter cloacae

<400> 5347
 tgcccggaag cagactcgcc caggaacgtt aacccttcaa cccatttcac acgcgcttgc 60
 atattcactc actccaacgt tgcatttttt atgacagatt acgtgtacgt tacattttctc 120
 gcaacggaag gcgacctgcg tcatgctgaa gcgagacacc aggagacacg cggcgaaaagc 180
 tatgctaaaa cactctggat gctacagtaa 210

<210> 5348
 <211> 243
 <212> DNA
 <213> Enterobacter cloacae

<400> 5348
 cagattacgt gtacgttaca tttctcgcaa cggaaggcga cctgcgtcat gctgaagcga 60
 gacaccagga gacacgcggc gaaagctatg ctaaaacact ctggatgcta cagtaataca 120
 ttgacgttac acatgtatgc agaggacatc aaactttact ggctgcgaaa cgttacgaca 180
 gccgacttcc caggtatggg taagaattcg attgcaaccc cagagtccgg atgcatctta 240
 tga 243

<210> 5349
 <211> 207
 <212> DNA
 <213> Enterobacter cloacae

<400> 5349
 cgaaagatgg ctgtacgtaa acgctttatc gcggggcgcaa aatgcccatc ctgccaggcg 60
 caagatacgc tggccatgtg gcgtgaaaat aatatcgata tcggttgaatg tgtaagtgc 120
 ggtcaccaga tgcgtgaggg cgacaaagaa gccgcgcatc atgttcgcaa agaagagcaa 180
 gtgatcgga tttttcatcc agactag 207

<210> 5350
 <211> 264
 <212> DNA
 <213> Enterobacter cloacae

<400> 5350
 attttttttc aggatcgcat cattttttta gccacagaaa tactctttctc tattagcgct 60
 attctcgcca ttaaaaaaaaaa gaatctaacc gtaaactttc ctgagttgag gccgataacc 120
 ccactattcg ttctacgtgt cgttacatta aggaataaat atggcaagta tttctacgtt 180
 gggagtcgga tcaggtttgc agttaggcga cattctggac agtctgaccg ctgcacaaaa 240
 agcacagctg acgccgatct ctaa 264

<210> 5351
 <211> 222
 <212> DNA
 <213> Enterobacter cloacae

<400> 5351
 atgaaacagt cctcatthaat aaacaccacg ccgggcttgt gggcgtcaca agcggctgcg 60
 agttcttcaa cgggtgtgtgc atcggtgatg tctctctttc taaccctctc gcttgctaag 120
 tacccggtta accctagccg ggtgtatctg cataaatcca taatgatcgt tgacatggca 180
 taccctcact caatgcgtaa cgataattca ccacctgcct ga 222

<210> 5352
 <211> 465
 <212> DNA
 <213> Enterobacter cloacae

<400> 5352
 ggaaaaatgt caatgaaaac gttaattctct cttactgctc tcctcggact agcctctgct 60
 tctgcctttg cagccactgc accagagtgc gtaaaaagctg ataatacagca gattgaagcg 120

ctcttcgata	aatggaatgc	atcgctccag	acaggcgatg	cccataaggt	ggcggataat	180
tacctgagcg	atgcggtatt	gctgccgaca	atatcaaacc	aggtcaggct	gacggataag	240
gaacgtgtgg	attacttcga	ggattttctg	aagaagaagc	cgttcggtaa	aattgacagc	300
cgcaccattc	gtctcggctg	taataaagcc	attgataccg	ggacatatac	gtttactttc	360
gcggataaaa	catccgtaac	cgcacgctat	acctttacct	acgcatggga	cggaaaagcg	420
tggaaaatct	catcgcacca	ctcttctgcg	atgccagaag	ggtaa		465

<210> 5353

<211> 795

<212> DNA

<213> Enterobacter cloacae

<400> 5353

aacgtcgggt	tgggaacatc	agccatactt	aatgcgcggt	ccaacgagac	ttacccagct	60
gatggtgtgc	taactgtagg	acagtttggg	ataggcgcg	attggttgcc	cctgactact	120
gattttaaga	ctattgaaaa	agggtggcatt	tatgctggcg	gtggcgctac	aggagttaat	180
ttctttaacc	cgtacgcgcc	tgttctcgtc	atgtgcagat	atgccacctc	cgcaatgcaa	240
gctctacagg	ctgataaac	tacccttgca	ttcaacgtga	aggatgcaaa	tggctggagg	300
ggttgggtta	agctttatag	cgaatacaat	acaattcgcg	ccagcgacgg	aacgctcaag	360
gctgcatcgc	cggatgatcaa	agtattttca	gatggaacat	accagactaa	cgatgaatct	420
gagggctgca	ctgtaacccg	tctggccaca	ggccaatatc	tgggtggaagg	gtgtcagggg	480
ctgaactcag	acgcagcatg	gggcggcatc	gatggagggt	ttgacatccc	taccgatcgc	540
aacaagcaac	cgttatctcg	gctggattat	gaggttaacg	ccgttgggtc	ggtactggtg	600
aaaacctatc	accgtactca	ccctgatgcy	cctgcattcg	ccagaaacga	actggaaggc	660
gtgggtgacg	gtgatcctgt	cgacattccc	cgtgaccagt	ttgtgtcggt	acgtgtcgaa	720
atgccagccg	attctttata	caaccaaaaa	atcagagcag	cagagctggc	catgactgct	780
gatgcgggtg	aataa					795

<210> 5354

<211> 186

<212> DNA

<213> Enterobacter cloacae

<400> 5354

tgcctggaag	actccagctc	ttttgctgcc	ccttattact	gggatgattc	tcagctcatc	60
acccggggcc	agaagctcaa	actcttcgtg	tccgatattg	cgacgatccc	ggaaaataac	120
aaaatccagc	cccttcgccc	gagcttctcg	cagataagca	tcaaagccat	caatggtggt	180
agatag						186

<210> 5355

<211> 339

<212> DNA

<213> Enterobacter cloacae

<400> 5355

cctgatcaac	aacgcggagc	aagcgcggga	aaagtctcaa	cccccgcggt	aaagtttctg	60
atgtcgcttg	cgctccggat	ggggcgcacg	ctctcagagc	ttcggcacia	tatgacggca	120
agcgagcttc	tgatgtggat	tgagtacaac	aggcaaagtc	cggttggcga	tattcgcggt	180
gacattcagg	ccgccagat	cgtctctgcc	atctacggtt	cgcagggggc	aaaagtaccg	240
ctggacgatg	cgatcctgcg	ctgggggtgg	gaggagcaat	cagaaccgaa	tgaccctgtt	300
gcagggcttg	aggctgcact	tactgccgcg	acgcagtga			339

<210> 5356

<211> 351

<212> DNA

<213> Enterobacter cloacae

<400> 5356

tgctggggaa	ccaaaatgga	aattttacta	gtttcaattg	ttataggctt	aattccagcc	60
ttaattgctc	aaagcaaagg	aagatctttc	tttgcatggt	gggtgtatgg	tgctctgcta	120
tttataattg	cttttgta	ttctttggta	ataaagaagg	atgttcgggc	agaagaaaaa	180

gacttaattg	aaaacgatgg	tatgaagaag	tgcccattct	gtgcagagtt	aatcaaaagc	240
gaagctatta	aatgtaagca	ctgtggtagt	gatttagcag	tcgattcccc	accggttaag	300
actgatgaag	aatacctcga	agaagccagg	caaaaggctc	ggaaacaata	a	351

<210> 5357

<211> 222

<212> DNA

<213> Enterobacter cloacae

<400> 5357

ggtgggaaat	cttattgcgg	aagctgctgc	ctcactgtgg	tgaagagggt	gctcttcatt	60
gacgtcctgt	gcgacaccga	taagcaaccg	gtattcagcg	tagacgaaga	agagcagggtg	120
cgtgaaatct	acggccccgt	ccattcacgc	ctgctcaaac	aggcgcttga	cctgatcaac	180
aacgcggacg	aagcgcggga	aaagtctcaa	cccccggcgt	aa		222

<210> 5358

<211> 447

<212> DNA

<213> Enterobacter cloacae

<400> 5358

caagaggatc	tactgaaagg	aatgatgaga	gatgtgtggg	ggcttaccgt	agttgaattt	60
attgctatca	agcggaatct	tgagaatatt	tctgatacat	ggtcagatct	ctgggcaatg	120
ttgtatctga	gtcaggctaa	gcccggacag	cttcttgggg	caaagtttga	tgatgtgagc	180
catgatattc	ttgttctttc	agccacaaaa	ggactgaggg	aaagatgcat	tgctcttaag	240
ccaggagtta	aaagaattct	ccactcccgc	agggagaagt	atcctgaaga	tgtgtttttg	300
tttcagagcc	attcacatcg	taccaagaca	actccaagac	cggtaacggt	agttgcattt	360
aatgcggcac	tgaaaagggc	atctattgga	gtgaccgcaa	aaacagtgag	tagtaaaagt	420
gcttattatt	taacgccact	aagatga				447

<210> 5359

<211> 393

<212> DNA

<213> Enterobacter cloacae

<400> 5359

gggttcagat	cgggagaatc	acgggaacat	ggtaacggga	ggcctcttac	ggagcctctt	60
ttttttcagg	aggactggat	ggcggaatat	ggagttcaga	catgggacgc	ctcaggcaag	120
gtaaacaact	atggcgttaa	gcctgtcagc	gtttgtggct	atctccagct	ggcccagaac	180
cagaaaaacag	gctcttacac	cgtagcgctt	ccaccggggt	gcaggctgac	ctatttttcag	240
agcatgaacg	gcgatcagtt	tggtacgagt	cggaggaaga	tcaccatttc	ggggggaaca	300
gcaacagtgt	cagcagcagg	tgataccgac	tactcagcag	ggactgagcc	tgcggcggcg	360
gcttatctca	ttttccagat	cgagagggca	ttaa			393

<210> 5360

<211> 672

<212> DNA

<213> Enterobacter cloacae

<400> 5360

atggcggagt	atggcgtttt	actgacgacc	acgagcgggg	aagtatgggt	gaccgctaac	60
agctcgccaa	tcgctctaca	ggcgcgaaag	acagcggcac	ttcagggaac	atcggggttt	120
aataccaaag	tgacgcacac	attccccgca	ggtcagcctg	ttgtcgcgtt	cgttcattgt	180
acggttgagg	tcgaaatcac	ccagacgata	agcggtaaca	ccatcacgat	tgattttctc	240
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672

<210> 5361

<211> 1347

<212> DNA

<213> Enterobacter cloacae

<400> 5361

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<210> 5362

<211> 207

<212> DNA

<213> Enterobacter cloacae

<400> 5362

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ggactgcaag	tgatcttgaa	gccacgggcc	cgtcccaccc	cgacatggac	ctcgatgccc	180
gaacggacgt	tagatttcga	gttctag				207

<210> 5363

<211> 234

<212> DNA

<213> Enterobacter cloacae

<400> 5363

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cgcgagcttg	tgcagatatg	cggcctcccc	cttgaggggcg	tcgggccaga	actcgggatc	180
ctcggccgac	aaggtgcaac	agccgacgat	gccgtcgctg	caactcgcca	ctag	234

<210> 5364

<211> 324

<212> DNA

<213> Enterobacter cloacae

<400> 5364

cttgccaacg	ctgtctcgcg	ctgggtactg	cggttcaacc	accttgcttt	gcaaatactt	60
------------	------------	------------	------------	------------	------------	----

gcgaacggtg	ttcctggaca	ggccgcttcg	tcgggctatt	tcccgaatcg	acgcaccatc	120
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cccgccatat	ccagacggga	aacagtgtca	tacgtgggtc	aaatttcgac	gcaaatcttt	240
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<210> 5365

<211> 1161

<212> DNA

<213> Enterobacter cloacae

<400> 5365

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gaatttttgg	agaaaattaa	aatgcagcca	catgacacat	ttaccggctc	ataccagccc	120
ggtgacgtgg	aattttctgt	aaagccggta	gtcattgaga	tgacgccggt	tgagcaaaaa	180
gaagagctga	ttcagtcagg	gaagaaacat	tattcggaca	tgctcagtca	ggagccagcg	240
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gcaaaaagaag	tcacacagct	cgctattgct	ctggccgaac	gcttcgggtga	tgagcccatt	360
gtactggcca	gtctcgtcag	agctggcggtg	ccgctcggcg	ttatgctgca	ccaggccctg	420
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gaaaaggga	tagttgttac	agaaatgggg	ggaaccctcg	gccagtatcg	ggctgtaacc	1140
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<210> 5366

<211> 1665

<212> DNA

<213> Enterobacter cloacae

<400> 5366

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tcgcaggacc	catcccttac	cgaagaaatt	atgcggctta	aagagcggat	tgagagcctt	180
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<210> 5367

<211> 228

<212> DNA

<213> Enterobacter cloacae

<400> 5367

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ccgtttttca	tggtctcttg	cttcaaaact	ccagtttgca	tactgttcgg	cccaggccgt	120
ccgttggtgc	tggtaccggg	gctgtcgaag	ggtattctca	cgctccacat	caatcagctc	180
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<210> 5368

<211> 741

<212> DNA

<213> Enterobacter cloacae

<400> 5368

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ttgcgtatcg	atcttcctga	tattgaatat	gaaatcagtc	aggtgcagct	cgggcgacgt	180
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gaacttgaat	atcttcacga	gattgtccgc	atcgcccttat	acaatcaccg	gcttaacaat	660
gtcagtatct	cagatgttaa	aaaccatgac	acaggaaagg	agagcagcag	ggtagagcca	720
caaaactatt	cactcttata	a				741

<210> 5369

<211> 261

<212> DNA

<213> Enterobacter cloacae

<400> 5369

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gctgcttcgg	taaattccag	cggcaacgct	acgtcatcac	tcattcttatg	ctcccatgaa	120
tactgcgact	gctattgggc	aaaaatcacc	caattctttt	tgctattatc	taataccctg	180
gtaattcatt	caagtattct	gcttcagggc	ctgttcagct	tcctgtttcg	ccaaggtacg	240
ggcaagaatg	gtggagtata	g				261

<210> 5370

<211> 207

<212> DNA

<213> Enterobacter cloacae

<400> 5370

cgcgcatag	tcgttgagca	tctgctgtgc	agcctgtccg	gcgcgttggg	gggtagggct	60
gaagggcgcg	aggtcacgga	gggtttgcga	cacctgttcg	atgetcaccg	cgtccacca	120
tttaaccggt	attcccagcg	aagagagctg	gtttacctgc	cgttcggcat	taccgccgcg	180
ccaggcgagt	accagatcgg	gcttttag				207

<210> 5371
 <211> 972
 <212> DNA
 <213> Enterobacter cloacae

<400> 5371
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 catcgaaggg atgtcattaa aaacaacccg cgatttgggtg aagctataac agaacactac 180
 agaattaatg atgtcattta taaaaaaciaa cccttgttct acaaaacgat gcttcaggaa 240
 tcacgcttca acataatatt gtccatgtgt tgttttgttt ttggcaatca ggctgagtca 300
 gtttcagaga ttaaggcgct atgcacccgt tacaatatcg ccagccctaa cagtgttatc 360
 gcgatcatta ccatacttaa aactaccggg cgaataaaga cctggcgctg tagtgaagat 420
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 tccggggcgt ttacgcctgt cagcattctt tatccggcat tcaacattaa tgttaacctt 540
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 cgaatgatta tgctctatct ctatttgag gccattaaaa acaaaacagc acacggtgcc 720
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 aaccgcatta tcaaatcggc gcaggaggca ggttatctta aagatcgcgg cgatggccgg 840
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 tatgtcacac attacatcaa tgtggtacca aaagaacgac gccatgctgt caacatgacg 960
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<210> 5372
 <211> 510
 <212> DNA
 <213> Enterobacter cloacae

<400> 5372
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 atagaaaata cgaacgaaaa tggaaatgcc gtttttgata ttgccagcct tgaaaaactg 180
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 gcaactcaatg attacactac cgctcatccct ctacgagact tccagaaata caacgccatc 360
 ctggctttaa aggtcaatgg cgaatatatg cgcacccgag ataaagggtcc gtcattcatc 420
 gtctaccctt atgacagtct tcctgaactc aataatcaga tttattactc gcgatcggca 480
 tggcagggtca gcaaaatgaa gattgaatag 510

<210> 5373
 <211> 276
 <212> DNA
 <213> Enterobacter cloacae

<400> 5373
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 gccaaagggt gccgtattgt gcacgtccgc gatacctccg gccgcgtcac cgccgttgaa 120
 tgctatagcg gcgaaggact actgctggct gactgcacgc tcgccgtttt caaaaagctc 180
 aaaaccaaaa agctgatcaa atccgttaac ggtcagccct accgcattaa cactacgggg 240
 ctgaacaacg ttcgcgctca gcctgataat cgttga 276

<210> 5374
 <211> 336
 <212> DNA
 <213> Enterobacter cloacae

<400> 5374
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 tcggtcatgg tatgcctgat gtttgtggaa caaagaggta tagtgtacct gaaagcaggg 180

agcgggtgttt	tactaaagtt	gtctttttaga	ttttcgaagt	cgactaatat	acgctgcatg	240
tatttagtct	atattataaa	tcttattctg	atgttcagcg	tggcgtgtaa	tattggtgag	300
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<210> 5375

<211> 768

<212> DNA

<213> Enterobacter cloacae

<400> 5375

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gccgggatcg	tcacggtggg	ctaccgctgg	ttgccgtcgc	agtacaaccc	tttcgtgccg	180
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<210> 5376

<211> 351

<212> DNA

<213> Enterobacter cloacae

<400> 5376

ttatccagcg	ccggcgcgaa	tatattcctc	ttaacgggat	gccctggggc	tggtgatcga	60
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ccactggagc	cacaggaacg	gatcactgct	atccaaatca	acagtgataa	tagcgactct	180
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ttcggattta	agtttacacc	tggagagcgg	tataacttcg	cgtatgacgt	ccaatctgct	300
aaatcagggg	cgtattttagt	cactgctgaa	ttttcttata	ccaaagaata	a	351

<210> 5377

<211> 195

<212> DNA

<213> Enterobacter cloacae

<400> 5377

cggccgacat	taactatggt	aaaggagagg	cttatgtttc	gttggggcat	tatatttctg	60
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gcagcgaaaa	ttgtcttcgt	cgtcggtatt	attctgttcc	tggtcagcct	gtttacgggt	180
cgacgtcgcc	cgtag					195

<210> 5378

<211> 213

<212> DNA

<213> Enterobacter cloacae

<400> 5378

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tctgtcgccc	atacagcctt	caggagctg	gatttcaaag	tactgaatac	ccgtcgcgta	180
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<210> 5379

<211> 189

<212> DNA

<213> *Enterobacter cloacae*

<400> 5379

atgaaacatc	tgggtaaaca	tttactgatg	actttttcgc	taatggctac	gcttttttacg	60
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cagtttaatt	acgtaggtga	tacggtgacg	ctggaaagca	atttgatgtg	ggaagtgttg	180
acgaagtaa						189

<210> 5380

<211> 207

<212> DNA

<213> *Enterobacter cloacae*

<400> 5380

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gatatcccat	ttttttat	tgttatgttc	ctgcacttta	gtgagttttc	ttttcttccg	180
acagaataca	ttttgtctac	attataa				207

<210> 5381

<211> 534

<212> DNA

<213> *Enterobacter cloacae*

<400> 5381

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<210> 5382

<211> 255

<212> DNA

<213> *Enterobacter cloacae*

<400> 5382

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<210> 5383

<211> 207

<212> DNA

<213> *Enterobacter cloacae*

<400> 5383

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<210> 5384

<211> 225

<212> DNA

<213> *Enterobacter cloacae*

<400> 5384

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agactcgaca	tagcctttga	gctgtgcatc	tacataggcc	cccggatggg	ccaaattcgg	180
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<210> 5385

<211> 195

<212> DNA

<213> *Enterobacter cloacae*

<400> 5385

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<210> 5386

<211> 198

<212> DNA

<213> *Enterobacter cloacae*

<400> 5386

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<210> 5387

<211> 192

<212> DNA

<213> *Enterobacter cloacae*

<400> 5387

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<210> 5388

<211> 363

<212> DNA

<213> *Enterobacter cloacae*

<400> 5388

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<210> 5389

<211> 225

<212> DNA

<213> *Enterobacter cloacae*

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<210> 5390
 <211> 219
 <212> DNA
 <213> Enterobacter cloacae

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<210> 5391
 <211> 426
 <212> DNA
 <213> Enterobacter cloacae

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<210> 5392
 <211> 195
 <212> DNA
 <213> Enterobacter cloacae

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<210> 5393
 <211> 1359
 <212> DNA
 <213> Enterobacter cloacae

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<210> 5394

<211> 2247

<212> DNA

<213> Enterobacter cloacae

<400> 5394

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<210> 5395

<211> 3009

<212> DNA

<213> Enterobacter cloacae

<400> 5395

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<210> 5396

<211> 1971

<212> DNA

<213> Enterobacter cloacae

<400> 5396

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<210> 5397

<211> 1236

<212> DNA

<213> Enterobacter cloacae

<400> 5397

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<210> 5398
 <211> 567
 <212> DNA
 <213> Enterobacter cloacae

<400> 5398
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 gggccttctt tgcccgtcga gttctgtcgg gtcagtgatg gcggtgaact ggcgaccgcc 180
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 agcgtggcct gccgcgcttt gcgtgagcgc gaagccattc ccgaggatcg ctgcgatggc 300
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 agggttcctg ccgtggacga agccatcgct tatctcgacg gcctcagcgg agagacccgc 480
 agccatgcgc gggactatat ttgccgcgtg cctgccacgc ttgatacgcc ctaccgacgc 540
 gccattaaag aggtgcttgg gtggtga 567

<210> 5399
 <211> 195
 <212> DNA
 <213> Enterobacter cloacae

<400> 5399
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 gctatcccag gggatctgaa caaaaaattg ggtaaatacg ccaggttcag actcgacggg 120
 aatatctccg cccagattct ggatctgctg acgcgcaagg aacagcccaa cgccgcggtt 180
 ttcacctttt gttga 195

<210> 5400
 <211> 249
 <212> DNA
 <213> Enterobacter cloacae

<400> 5400
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 gataaaacag aggttaacaa tcaaaactggg attgctacgc ttatgcagcc actgcaaaaa 180
 agattgtttt acaacaaagg tatcgtgctg cacacacact ccctgattgt cgctcaccat 240
 ccgatatga 249

<210> 5401
 <211> 201
 <212> DNA
 <213> Enterobacter cloacae

<400> 5401
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 gcgagcccat cagaacggcg gagtagctgt aaacgcgatg gctatcaggc attgcatgag 120
 tcctcagggt tagccccggc aggcaccgcg ccgcccggga aacaggagcc ttaccgtgtt 180
 ttcgaacgca tagccgctg a 201

<210> 5402
 <211> 183
 <212> DNA
 <213> Enterobacter cloacae

<400> 5402
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 tgcacactgg tcagaccgcg cttttcctgc ctaaaaccgt cattctcttc aagaaatctt 120
 tacctgcctt taactattga gacgaatccg atcgactcaa aatcctggca tgccactat 180
 taa 183

<210> 5403

<211> 216

<212> DNA

<213> Enterobacter cloacae

<400> 5403

aaattgtgtg	acgggatcaa	atttggggga	gagatgcggt	ctgacgccct	caccccgacc	60
ctctcccacg	gggagagggg	gaagggcacg	aatcgtaggc	cgggtaaggc	aaagccgcca	120
cccggaagg	ggtagaagc	gcgaatctac	cgacagcc	agcatctcca	gcagccgttc	180
gctgtcttcc	cagctcaggc	acgggtcggt	gattga			216

<210> 5404

<211> 282

<212> DNA

<213> Enterobacter cloacae

<400> 5404

acaacatcac	gctcgggatg	ggcaaaaacg	acggggtata	aaatggcacg	agtgaaaaca	60
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catctgataa	gttcgaaagg	acagaaacaa	tcgcaggcag	atataccttac	cgccaggac	180
gataaggcct	ggctgacggt	gccttacacc	ggcacctggg	atgtgctgat	cgacagccac	240
agccagtcgc	tcgaacattc	cgtaagttac	gtggcggcat	aa		282

<210> 5405

<211> 384

<212> DNA

<213> Enterobacter cloacae

<400> 5405

ataatgaaac	ttactaatcg	actgaaaaag	aagttattag	tccttgatgg	cattgacaat	60
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tctatcgtaa	actcatatga	gtttgacacg	ctcacagaag	aagtaaaatg	ctttttgggt	180
aagaaaatga	gaggtgtgaa	gcttgatagt	gaacataaga	aatatagcta	tgatgaaagc	240
caattagatg	tttcgaaaaa	cacatgttca	aagtgtttaa	aagagttttc	cgctatatatta	300
acgtataaag	aagtgcagcc	agcccgatag	cgggtatatc	ttgtggggct	ttttgaagggt	360
gatttgaagc	agatcaaact	ttaa				384

<210> 5406

<211> 183

<212> DNA

<213> Enterobacter cloacae

<400> 5406

gttcaaaaagc	gccaaaaaaa	tgataactat	aaccggtggc	aaaaaaggaa	ctgtatcagc	60
agttatatca	agcagtttaa	aaaaggctac	gaggaaaaag	atgactacgg	tttacattgt	120
catattgacg	tatataaacc	ccttgaggag	gttgacgcaa	cgataccttc	tcatgttgag	180
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<210> 5407

<211> 228

<212> DNA

<213> Enterobacter cloacae

<400> 5407

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aatggcctat	ctctgttaaa	tatttaattta	ataacaatta	cttgcatttt	tatatgttct	120
atttctttct	gttggtggc	accctcacgt	atcgctgtcc	acacttatct	tttagccaaa	180
agagaggtta	acgatgccat	acaaatcgaa	aagcgaatta	ccagataa		228

<210> 5408

<211> 186
 <212> DNA
 <213> Enterobacter cloacae

<400> 5408
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 acagcgctct tcttgcagaa accccgtaac gccggggatg aaaagctggc attacctttg 180
 cattaa 186

<210> 5409
 <211> 336
 <212> DNA
 <213> Enterobacter cloacae

<400> 5409
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 tgtggtgaaa gtaacatact tgtagtggtg ccatTTTTTaa gctatgcatt ggtcgactta 120
 acacgccagt tagtctttgt gttaagcgag cctaagccat tatcaaccgt tttgaccatc 180
 ttcaatgtgc agggcgaaaa actatttttg tctgcccctc ctgaagggtgc gacttttctat 240
 tacttaacat tcaacctgtc aaaggaagtg atcgtttgtc gtagctatcc agcaaaaaaa 300
 atggctggca tgattgggtt tattcctggg atatga 336

<210> 5410
 <211> 429
 <212> DNA
 <213> Enterobacter cloacae

<400> 5410
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 atttatgcac cgggtcaggc ggcacttaaa ttcaatcaat ggtatatagc gcagttagat 120
 cagaacaaac caccgtact caatccagac attatgaacg agtacgtagc ctcagggacc 180
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 tctgattttg acgccgtttg cacaaacgtc tatgtcgcac ttggtaagaa gcaagatcat 360
 gttattgcag attgtctcgt tgaagagcaa ggaaaatgga aagtgcgatc ggcgacgcta 420
 attaagtaa 429

<210> 5411
 <211> 345
 <212> DNA
 <213> Enterobacter cloacae

<400> 5411
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 aaagatatgg ggcgcacatt agtcaatgca ggctttcacc tggatatatga tcaaccccat 180
 gctggtgacg tcgcagttat ccaaaatata gttggtcatg atagcgggtca cgtttgtata 240
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 taccgcaaca tacaacctca ttacgaactg ttcaggcatg attaa 345

<210> 5412
 <211> 234
 <212> DNA
 <213> Enterobacter cloacae

<400> 5412
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 ttaatgagaa tagtaatcat taatcagttg aatgtggagt atttctttcc ttcaaagcct 120
 tacattcacg aaatgtgcgg ttatagtttt cataacattt acaaaggatt taacatatat 180
 acacaggttc cagttgattt gggttcgaatt tttcttaacc ggtttactcc atga 234

<210> 5413

<211> 675

<212> DNA

<213> *Enterobacter cloacae*

<400> 5413

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gaaaaatacc	tccttaccga	agccggcgag	cccgaacgtt	tgacgcgcca	gtgggcccag	120
gtgatgcgcg	agtgtcatga	ccagaaatcc	ggggcagaag	agcggctgcg	tctcgcgcgtg	180
ctgaacgtgg	attatgtgac	cagctttgag	cttcccttcc	ggttacttct	taccctgca	240
ccgcagctga	ttgatggcat	cagaaatgag	ttccagctca	gtcaaaaaaa	tgctctgttc	300
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gaatttacct	accacctgaa	tacccgatt	cagcggatcg	atgcctccg	cggttcggaa	420
gtgccttacc	ggcaaatcgc	tcagcaggtg	aaagccccc	gcgagcgcc	ccagctggcg	480
ctggaacagg	ggcttgcggt	caccgcgctt	gacgggcttt	tctggtttg	cctccagcgc	540
atagccgccg	acgtgcagcg	gttaagggaag	acggggatga	gaatagtga	gtccgatacg	600
gaggtgttcg	acacccttac	cggaacaaca	cggcgcattc	cggtttatcg	tcttgaggac	660
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<210> 5414

<211> 249

<212> DNA

<213> *Enterobacter cloacae*

<400> 5414

tgtgaggtga	ttatgagcga	cggtgttctt	ctggtaccga	atgactgggt	tagcgaaaag	60
gttctgattg	cggttaccgg	gctcaagccc	ggaaccatcc	tccgggccag	aaaagaatgc	120
tggtgggttg	ggcggaata	tgtgcacgtt	tcaccggacg	gaaatccgaa	accttccagc	180
gagtgcattg	acaaccgtaa	agcggtcgat	gcgtgggtgg	cctcaatgaa	aaacaaacag	240
cctgggtga						249

<210> 5415

<211> 186

<212> DNA

<213> *Enterobacter cloacae*

<400> 5415

attctcagta	accgcgcgg	ggaatgttta	agcggggcta	acatactgaa	cagtatgaat	60
aaaatatggc	aagcggacca	ttatttcttc	tggagggtgg	taaatgaaaa	gaaaacttct	120
ttttatctgc	gcgggtacag	tgctgacggc	ggcgactgtc	ggtcaggcgc	tggcagtcac	180
cagtag						186

<210> 5416

<211> 1002

<212> DNA

<213> *Enterobacter cloacae*

<400> 5416

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<210> 5417

<211> 186

<212> DNA

<213> Enterobacter cloacae

<400> 5417

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tcaggcatttt	ctgaaggctg	gctcgcaaaa	ttgaccttcc	cttttgatac	aaaagaaacg	120
ctgttttata	aatcagtgac	acgcgtattg	acactctttg	cattttttgcc	attcaccctt	180
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<210> 5418

<211> 234

<212> DNA

<213> Enterobacter cloacae

<400> 5418

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atcgatttga	tgcttttttc	caaacctggg	catttcgcgc	tgattcctca	ggacgctgat	180
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<210> 5419

<211> 1395

<212> DNA

<213> Enterobacter cloacae

<400> 5419

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<210> 5420

<211> 2637

<212> DNA

<213> *Enterobacter cloacae*

<400> 5420

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<210> 5421

<211> 219

<212> DNA

<213> *Enterobacter cloacae*

<400> 5421

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ttctgtgtgg	ctgtgggtcg	acagaagtat	gacacctccg	ccgggaagcg	ggagctggga	180
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<210> 5422

<211> 204
 <212> DNA
 <213> Enterobacter cloacae

<400> 5422
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 gggaaatttt catttaccgc aggctactcc ctcaactcca acaagttgag agtagcctct 180
 tattcttttt ttgacaagga gtaa 204

<210> 5423
 <211> 783
 <212> DNA
 <213> Enterobacter cloacae

<400> 5423
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 tcggtcaatg acgatgaaca cgacaaccac tttttacagc ccatcgatcg ctacaacacc 720
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 taa 783

<210> 5424
 <211> 351
 <212> DNA
 <213> Enterobacter cloacae

<400> 5424
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 attcagcagg cgatcaacga tgccataaac cccagcagca gccgtaatga cgatgacgac 180
 gatcggttac accgcagccg tcaaatcgac agccgacagt acgacgatcg tcgtcggcag 240
 ctcgaagaca gacgcccgcc tttagacgag cgtcagcgtc agttggacga cgacaggcgt 300
 cggttagaag aggacgagcg caggttggaa gacgattacg atcgcggtta a 351

<210> 5425
 <211> 240
 <212> DNA
 <213> Enterobacter cloacae

<400> 5425
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 gggaaacctga aagcagcaca ttgctcacat tgcttccagt attacttttag ccagctttta 180
 gctggctttt tttttgttat ggtagactc agcaaccttc gaaaaaggac tgagccatga 240

<210> 5426
 <211> 219
 <212> DNA
 <213> Enterobacter cloacae

<400> 5426

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gctggccacg	ccgcggttat	gccactctgc	gccaacgcat	ataccgaaat	cggcaacgtg	120
gctgcggcgt	ggtcgctggg	cgacatcaat	ggtgaggtgg	cctaccacga	tatcatcaat	180
gcaggcaacc	agctgtttta	tgcccggctg	ttcgcctag			219

<210> 5427

<211> 237

<212> DNA

<213> Enterobacter cloacae

<400> 5427

aggcaccggc	aggcgctatg	ccctgcgcaa	cggcgagtat	gtggatgcgt	attatatggc	60
gcgaatgaag	tagtttggtg	ccgggtggcg	gcttcgcctt	accgggccta	cgtccgtgtc	120
gttgtaggcc	cggtaagcgc	agcgctccg	ggcaacaaaa	tcaatacccc	gccgttaaat	180
catccaccga	acgcgggtcc	gacgcgcaa	acagcgcgcc	atccggtccg	accataa	237

<210> 5428

<211> 195

<212> DNA

<213> Enterobacter cloacae

<400> 5428

ggatgccggc	agcagcgccg	gcaggaaaaac	aagggaggtc	agtttcatga	atcgggactc	60
cgtcagactg	aatcgccctga	cagcgtgccc	gtggttgctc	agaaaagccg	cattaaattc	120
tatatccgga	actacaaatt	aatcagatgg	gatgatttgc	taatgagtag	gttcgagagt	180
gtaattttatg	actga					195

<210> 5429

<211> 285

<212> DNA

<213> Enterobacter cloacae

<400> 5429

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agggcaccgt	ttccggtgcc	ctgggggtcag	tgccttaacc	tgcagtcgtc	tcattctgtct	120
ccggggaaaa	atcccgaacg	ggttttcacg	gagtgcattg	gtcttacagg	tcagtttagtg	180
tgcaataact	tcctgccagg	cctgctgcgg	gtaaatcccg	ttatagttta	ccttacagca	240
ccgtggccag	cggggcacct	atgcatcaaa	gcctggcaac	aatag		285

<210> 5430

<211> 381

<212> DNA

<213> Enterobacter cloacae

<400> 5430

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ctttcagacg	tgcatttcgc	ctcagcagca	aatggtttgc	agcaaattga	aggcacggga	180
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ggggcagtaa	taggaaatac	ggcagcgatg	gctgaaaatc	tggagccggg	tcagcaatgg	300
aagctacagg	ccccctacga	cagcataacc	aacaagccag	acagcttcaa	agtgacagaa	360
ctgacgggtat	ttaataactg	a				381

<210> 5431

<211> 741

<212> DNA

<213> Enterobacter cloacae

<400> 5431

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ggggccctac	agtcctctgt	taatatacctg	ctccatacac	attatgcaat	ccggcttttg	120

gagggcagga	aacgtgatgc	tccggacgag	acaggggtga	aaaaaaagag	gcctgaaata	180
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cgccgtgata	ttgcagaaaa	aaccacgcaa	gggcttggtg	ccattgagcg	aaatggcgaa	660
cctgatccgg	atgtgttaag	cggtaaaaaa	cggttcttcg	tctcacctcc	gcttaaaaaa	720
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<210> 5432

<211> 549

<212> DNA

<213> Enterobacter cloacae

<400> 5432

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aatggctcgt	tcctcagctg	cgtaatcaat	gcactgagtg	gtccgactga	taatccggcc	240
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gcccgcctga	ttaaagggtgga	ctggatcaaa	ataggccagg	aaatgggtta	caagactgaa	480
aaatctgact	ccgtgcccgc	gcagaatggc	tctgtcgcac	aacaaaacta	cgcagaaaaa	540
tcattctga						549

<210> 5433

<211> 699

<212> DNA

<213> Enterobacter cloacae

<400> 5433

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cagccgcaaa	agttgcagca	acgtgcgcct	gccgaccgga	caccgcggac	caccgtcacc	180
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cacagcctgc	gcgacggcta	ccagttgccg	gtctcccagc	ttccgcccgc	ggtcagcacc	600
tggtcgcgc	ctgcgcgcgt	agcgggtgta	caaccggcca	tcagcgcacc	tcagtcgcgc	660
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<210> 5434

<211> 636

<212> DNA

<213> Enterobacter cloacae

<400> 5434

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tgggaggcgt	ttgaccctta	caccaacctg	aacgccgccg	ccaccatttt	gcgtgagtcg	420

tgggcgcgta	agccaggcag	ctggctggat	gcggccggct	gctaccacca	tcccgagggt	480
ggtcagcctg	ctgcacgtta	ccgcgccatt	gtgagaaggc	atctggcaaa	aatcagccct	540
acaccccgca	tttctgcgcc	ggcagctgaa	gcgccccgtt	cggttgctgc	gctcaccccc	600
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<210> 5435

<211> 411

<212> DNA

<213> Enterobacter cloacae

<400> 5435

acgttaagtc	aggagatgaa	ttccatgcac	cattctgagt	ctgttggtgc	ccgcctgcgc	60
cgtttcgcca	gtcgtacgct	gacccgcgcc	ggtacgcttg	ccctcctggg	ctggctcacc	120
tgcaaaccgg	cctttgcgga	cttgccaagc	gttgaagcgc	ctgagtcagg	aggcgggaagc	180
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gtggcggccg	ttgcctttat	caacgttgcc	attgccgccc	tgacacacct	caccgaagtc	300
cgcaatgaga	aagccacctg	gaccaaattc	ggggccattg	tgggtggtgg	tgtggtgctg	360
ctggttgccg	ttatctggct	gctcggcaag	tctgccgaca	ttctgctgta	g	411

<210> 5436

<211> 369

<212> DNA

<213> Enterobacter cloacae

<400> 5436

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gtgtttcgcg	gattcaccac	ccatgagatg	gggctggcag	cccttgccgg	cgcggtgctg	120
ggtctgctcc	tgctactgcc	gtttatcccc	cttgccggct	gggttggtgt	ttccaccggc	180
ctgctggtca	tgccgctgct	gctcgtctgg	ttcggcggcc	gctggatggc	caggctcaag	240
cgtggtaagc	ccgagaactg	gctctggcag	cgactggaga	ctaaaaaacg	ccggctgggg	300
atgggcaatc	cgaaactgat	tgtggatgcc	cggggctggt	cagtgaaacg	taacaggaga	360
gcttcatga						369

<210> 5437

<211> 474

<212> DNA

<213> Enterobacter cloacae

<400> 5437

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cggctctgacg	gagaaacaac	aggagcctgc	cacggtatga	tgacactgaa	gtaccctgaa	120
cccgccattc	atgagcacag	tggcgggtgcg	cttttcaccc	tgctgcctca	gggggagccc	180
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gccatctatc	ttgagggaaa	gctgaagcag	gcggtgaata	ttcttatcac	cgtgacggga	360
cagacgagct	ggccgcagga	agaggagtat	gcgcatccgc	gctggtatat	cacggtgccg	420
gattcggctg	acctggtgta	tctgatgctg	tggattaacg	ggcttgacgt	ataa	474

<210> 5438

<211> 195

<212> DNA

<213> Enterobacter cloacae

<400> 5438

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cgtactatgc	agataaacgg	caactgtcgat	gaaaagggtg	agcagttgcg	caaaatgttt	120
gctcagagtt	caacacgaac	taaggatgac	aggaagcacc	gtggggatcg	agaaaaggta	180
tattacgaag	gctga					195

<210> 5439

<211> 489

<212> DNA

<213> Enterobacter cloacae

<400> 5439

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aggcgattca	gtctgacgga	gtcccgattc	atgaaactga	cctcccttgt	tttcctgccg	120
gcgctgctgc	cggcatcctt	actggccggc	acggctcgtc	tcaactgacag	tcagcatctg	180
ccggccaacc	tgccgcctga	cgtgccgggtg	gtgcttcttg	atggctctga	ccggctgcag	240
gccgacatgt	tcggggaact	gcctgcagac	ccgcagcagg	ccgaagcaca	agtcaggcaa	300
gttatgacgt	ctcctgcctg	gcaacaaaaa	cagctgcaac	taaacgattc	ttatcgacag	360
gtggtccggg	cctgggagct	gggcatcaaa	aaagtgccag	cagtgggtatt	tgatgaccgc	420
gatgtggtgt	acggcaccac	ggatgtggcc	gtggccactt	ccctgcgtaa	ccggggagggt	480
ggtcagtga						489

<210> 5440

<211> 327

<212> DNA

<213> Enterobacter cloacae

<400> 5440

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gacatggaag	tgatcgaagg	cgattttttc	taccgcgtta	ggcagggtga	tacgggctgc	120
gctgatataa	gcctgattca	tgtccatcga	cagggttttg	atggattcga	tctgacggtc	180
acccaggctc	tagaggtaac	ccgccagggt	ttcaaccccg	cgatcatccc	tgagctccag	240
ggcctgtccc	tgtgtatcag	agataaccgt	gacgtactga	tgaccctttt	tgaaggcgac	300
ctcatcaaca	cagaggtgac	gtgctga				327

<210> 5441

<211> 570

<212> DNA

<213> Enterobacter cloacae

<400> 5441

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ctgaaaaaaaa	cgttaggcgg	caacgatagc	ggagaaagtg	gtgggatgcc	gctgatgagc	180
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gataccgcgg	cggcccgcct	gaagcgccat	tacaaattta	tctccacaca	ggagcttgag	300
gcactgcggc	aggccacaaa	tgacggggac	tgaaaagcgg	ctgctgaaga	tgatgcgcat	360
cccgtctggg	acgccatgcc	gggcagctac	tacaaaatgg	gctccgactg	gaacggacgt	420
gatcacctgg	atatcgaaat	cgagaaaaac	gggtccggca	gcaggctcta	tgttgtctat	480
cgttcatcat	catcacagcg	tctggccggg	tccggcgtca	cgaagctgat	gaatgatgtc	540
cgcgctgttg	cggcgggtga	aaaacgctga				570

<210> 5442

<211> 270

<212> DNA

<213> Enterobacter cloacae

<400> 5442

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ttcttttttt	attctaata	aggtaacccg	ctcgaacctg	cacacattca	cgtaatgaaa	120
gcaggtagtg	aagccaaatt	ctgggttaacg	ccatcagtgg	tactggccag	taacgatggg	180
tttaattcac	gggtattaaa	agaactgacg	gggatcgttg	aagataacca	agcattgttt	240
ctggaggcct	ggaatgacta	tttcagctaa				270

<210> 5443

<211> 765

<212> DNA

<213> Enterobacter cloacae

<400> 5443

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<210> 5444

<211> 783

<212> DNA

<213> Enterobacter cloacae

<400> 5444

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<210> 5445

<211> 264

<212> DNA

<213> Enterobacter cloacae

<400> 5445

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<210> 5446

<211> 978

<212> DNA

<213> Enterobacter cloacae

<400> 5446

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<211> 2946
<212> DNA
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<211> 633

<212> DNA

<213> Enterobacter cloacae

<400> 5448

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<210> 5449

<211> 1557

<212> DNA

<213> Enterobacter cloacae

<400> 5449

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<211> 786

<212> DNA

<213> Enterobacter cloacae

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<211> 540

<212> DNA

<213> Enterobacter cloacae

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<210> 5452

<211> 537

<212> DNA

<213> Enterobacter cloacae

<400> 5452

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<211> 405

<212> DNA

<213> Enterobacter cloacae

<400> 5453

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<211> 672

<212> DNA

<213> Enterobacter cloacae

<400> 5454

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<210> 5455

<211> 702

<212> DNA

<213> Enterobacter cloacae

<400> 5455

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<210> 5456

<211> 1008

<212> DNA

<213> Enterobacter cloacae

<400> 5456

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gcgcagatta	ttgccagcgc	cgtgtcgcaa	aactgtatca	gctggcggtg	cagtggcatc	180
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cacttcattc	cccagacagt	cgtttcgacc	tatgtcgcgc	cgggcggtaa	cccgtggcag	300
gaaatggcgt	ttgtcagcca	gaccgccggc	gggctggaga	gtgccgtgac	cagcgggctt	360
tccggtgttt	ctgccggagg	agccaatccg	gccgacatga	aaaatcccgg	ccagcgcaag	420
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ggcagtagct	cgggctattc	ctgtgacacc	gcagccaccc	cgttaatgcc	ttacttcctg	540
agtacgctgg	attcggcggc	ctggcgtagc	ggcggtcgcg	agtcctctga	tccggaagcg	600
cttgtgcccc	gccagcggga	aattggcagt	caggccgcag	cgaatatgtg	gggcaacgtc	660
tatccccgtt	cggggtttgt	cagccagacc	gatgatgaca	aagcctctgc	cgtgggtggc	720
cagcgtgtgg	cagacattat	caccgcgcgc	gggcagcccc	atgtttatca	ggtgcttaag	780
ggcaaccgcc	atgacgggta	ctggccaccg	ggcgaggtca	cggaaaacac	cggcacgcgc	840

aatcacaaat	ggcagcggt	ggctccccac	atgacacagt	cctgtgccgt	cttcccggac	900
gggagccaca	ccgccgcgag	cgataacaac	gaagcctttg	cgctctggca	gccctacagc	960
tgctgcaaaa	agcgcgggca	gaaattttctg	ggcagcactg	atatctga		1008

<210> 5457

<211> 231

<212> DNA

<213> Enterobacter cloacae

<400> 5457

aaattatttt	catcttttctt	ttcattaaaa	ctattttattg	aagcatcttt	agagctagat	60
cctatatgtg	ttatggcagc	aataaaaagtc	cataataaaa	ctgcgctgca	gcttatcaag	120
aaaccgcctg	ctataagtgc	aactaacgaa	caaaggacag	ctaaaagcag	cggtatgtgg	180
cctaaccact	tcggcagttt	gtattgttta	gccagtatga	cgcagcgctg	a	231

<210> 5458

<211> 204

<212> DNA

<213> Enterobacter cloacae

<400> 5458

agggactata	gcggtttttt	tgagcaatta	ctaattactg	cttcagtgtc	cagagttact	60
aataaattct	ctaatatcat	cggtttaatt	tttttcaatg	cgttacgact	tgatcatcatt	120
aaaaaagcat	cattatactg	tgcttatatg	ggtcttcccc	gatcatgggtg	ggagactcat	180
aaccccatgt	ttaacctgcc	gtaa				204

<210> 5459

<211> 186

<212> DNA

<213> Enterobacter cloacae

<400> 5459

cacaaatata	ttctttatttt	taaaaaccag	atctcgatgc	ataattattc	cattttatttt	60
ccatgcgtaa	cggtctccct	tctcagccaa	cagttaaagc	tgaccttttt	acaactcgct	120
tataaaaagt	ataggggtat	tgtttatgcc	atggataata	agtccaatag	tgatccaagt	180
ttttaa						186

<210> 5460

<211> 183

<212> DNA

<213> Enterobacter cloacae

<400> 5460

tgttttatat	caattttttag	cactgaaaaa	gattttaaga	aaaacttcat	caattcatgg	60
ttatgcccg	taatacaaat	aacgccaa	caaaactatc	tgcttcaggg	tatgtctctg	120
gactggccct	acaaacatca	acggctccca	ttgggagccg	tctttttaac	aactactgca	180
tag						183

<210> 5461

<211> 450

<212> DNA

<213> Enterobacter cloacae

<400> 5461

cgcagttcgg	caaccttcct	gatgaagagg	cctggctgct	ctccgttcac	ttcgaagtcg	60
cgaaagacaa	cctttaagga	gcaacacatg	gaacagatta	cagtcgtgat	tgccgatcgc	120
ctgggtaaag	ggcagaaagt	ggctgcgggt	gtggaaaaag	ccggcggacg	cgcggttgct	180
gtaccgggca	tggcagcgga	tatgaagctc	ggtgacgtga	tgaaagcaga	aaacgccacc	240
ttcgggatct	ccttctgcgg	cagcggcggc	gcgggcgcca	tcaccgctca	gaccaaata	300
ggctacaagg	ccaaatacgg	gatgcgctcc	gtggatgagg	gtgtgaccgc	catcaacgaa	360
ggctgcaacg	tgctgggctt	tggctttatg	gataaagaag	agctgggcga	gcgtctggta	420

caggcggtggc agaagaaata cggcgcgtaa

450

<210> 5462

<211> 789

<212> DNA

<213> Enterobacter cloacae

<400> 5462

aagggcagac	tgatgttctt	aattatatta	ataaaatcgc	tcatcatcgg	cggcctggta	60
ggcgtcggtg	tcggggccgg	ggctgcacgc	atgtttcatg	cgcctaccac	tcagggtatg	120
ggcgcggttc	gtacgttggg	ggaactgaac	tcctgcgaag	gggatccggc	gtcccacttc	180
tcctttgggt	taggtttctt	ctttaacgcc	tgggctctt	ccgtggccgc	aggtgccttc	240
acacaggacg	ttgaccaccg	catcatccca	aactgggggtg	ctgccgcgct	gatgatcaaa	300
aaccgtaacg	tcggtgaaac	gctgcatgac	ccgcgcaaaa	tggcgattgc	ctgcggcatc	360
atcggcatag	ttgtcgtgac	cttccttaac	ctgaccgcct	cctccgtgcc	cgcagcgctt	420
caggtcaccg	ccgtgaaggt	gctggtgcct	gccgcgaacc	tgctggtcaa	caccgtgatg	480
ccggtaatct	tctggctggc	ggccatcgac	gcgggtaaaa	aatcgggctt	ctgggccacc	540
atctttggcg	gcgcggcaca	gctgatcatg	ggtaacgccg	taccgggtct	ggtactgggt	600
attctgatcg	gtaaaggcgt	ggaggagagc	ggctggaacc	acgtcaccaa	agtgatgatg	660
gcggcgatcg	ttctgtctct	cgtgctgagc	ggcttcttcc	gcggtctcga	catgaagatg	720
atcgaatcct	tccatctgac	cgtgccgaac	tggctcgaca	tgatccacaa	ctcgtctcagc	780
ggtaaataa						789

<210> 5463

<211> 642

<212> DNA

<213> Enterobacter cloacae

<400> 5463

atggaacaga	ataaagggtt	ttgggtatgcc	gactggctgt	tcccgatctt	cgttggcctg	60
ctctcctccg	gcgtgtttgc	cgggacgcac	atgtactacc	tctacggcat	cggcgcttt	120
aacgaagtgg	ccttcgtggc	gatgctgaaa	gcgggcattg	ataccggcgt	ttacggcgcg	180
gtggcgcat	ttggcgag	cttcctgttc	gcccgaatta	tcgaagggtc	gctggtaggt	240
attcttgata	tcggcggggc	gatccagacc	ggcgtgggcc	tcggcgtagc	ggcgtgctg	300
ctgggcgcgg	ggatcatgtt	cccggtgacc	aacttcattg	cctcgctgat	taccggcctg	360
gtgattggtc	tggcgattgg	ctacgtcatc	atcctggcgc	gtaagttcac	catcaaccag	420
agcaactcca	cctacggcgc	agacgtgatg	atgggcgcgg	gtaacgcctc	cggccgcttc	480
ctcgggccgc	tgattatcct	cagcgccatg	accgctcca	ttccaatcgg	cgctcggttcc	540
ctggtaggcg	cgttgctgtt	ctacatctgg	cagaagccga	taaccgggtg	cggcatcctc	600
ggcgcaatga	ttttgggctg	gctgttcccc	gtcgcccttt	aa		642

<210> 5464

<211> 768

<212> DNA

<213> Enterobacter cloacae

<400> 5464

cgaagtatta	ggacaggaga	aaaacgcgatg	aaactgaccc	ccaactttta	ccgtgaccgc	60
gtctgcctga	acgtgctggc	aggctcaaag	gccaacgcc	gcgccatcta	tgaggcgcg	120
gaaggccacg	tgctggtggg	cgtgctctcc	aaaaattacc	cggacgtggc	gagcgcggtc	180
gcgatattgc	gtgagtacgc	gaagctgatt	gataacgcgc	tctcgttg	cctgggcgcg	240
ggcgatccga	accagtcggc	gatggtgagt	gaaatatccc	gccaggtgca	gccgcagcac	300
gttaaccagg	tctttaccgg	cgtggccacc	agccgcgcgc	tgctggggca	aaatgactcc	360
gtggtcaacg	gtctggtctc	tccgaccggt	accgtcgga	tggtgaaaat	ctccaccggc	420
ccgctgagca	gcaacgcgcc	ggacggcatt	gtgccggttg	aaaccgccat	cggcctgctg	480
aaagatttcg	gcggcagctc	catcaaatat	ttcccgatgg	gcggcctgaa	gtgccgtgac	540
gaataccagg	cgttgccgga	agcctgcgcc	cgtcacgact	tctggctgga	gccgaccggg	600
ggaatcgatc	tggagaactt	cgaggcgatc	ttgcagatcg	ccctggatgc	gggcgtgagc	660
aaaatcatcc	cgcatactca	cagctcgatt	atcgacaagg	ccagcggtga	tacgcgccca	720
gaagatgtgc	gcacgctgct	ggcgatgacg	aagaagctgg	tgaagtaa		768

<210> 5465
 <211> 225
 <212> DNA
 <213> Enterobacter cloacae

<400> 5465
 ataaacttat gcacactggg taagtacgag gttctggtct atagtcattg ggcatcaaaa 60
 tttgcgctca ggacagtcgg gccgattgtg gcaccgcaag agcgtatgat tcgcaggaga 120
 tacaagaatg aaaattttcc aacgctacaa cccgcttcag gtggcgaagt acgtgaagat 180
 cctgttccgt ggacggttgt acatcaagga tgttggcgct tttga 225

<210> 5466
 <211> 459
 <212> DNA
 <213> Enterobacter cloacae

<400> 5466
 ctgttggctg agaaggggaag ccgttacgca tggaaaataa atggaataat tatgcatcga 60
 gatctggttt ttaaaaaataa gaatatattt gtgttattta tgttagctac cataggatat 120
 gggatttggc gcatgcttgg tgactttttt taccttgaac agactatagt ttatcggcat 180
 gccgtagctg ataagtcctat gttgtatatc acggaaagca gcgcgggtgc gacgacttct 240
 ttcgtatata aatattatct ttacacggca caaaagaccg atgaagtttt tttagaagac 300
 attaaaaatg gttatgaacc tttccttgct accaccgatc ctggcggtgaa agttagcatt 360
 gaagacagaa cgatttttct taaagtaagc ggggatattt ttaaatttaa taatatcgta 420
 ggctctgcct ttatttatct caattcgtcc cccttctaa 459

<210> 5467
 <211> 372
 <212> DNA
 <213> Enterobacter cloacae

<400> 5467
 ttttattcca gagccattaa cggggtaaga cgagtgatta acggagcggg aatgaacgac 60
 gttggggaac aggcggtgca aacagaacag ctgcgcaaga ccatgcttca gcaggctctac 120
 gccctgctgg cccggcacia catcatcccc aacgcggtac aggagcagat gctgacctcc 180
 cacgttcgag caatggcgca ccggtccgtg accggcgagc cgctgccgga gggtgaagca 240
 gagctgttcg acgaaatttc accagattca atgcaacttg cccgtgaagt ggtagcgag 300
 ttcggcaacc ttcctgatga agaggcctgg ctgctctccg ttcacttcga agtcgcgaaa 360
 gacaaccttt aa 372

<210> 5468
 <211> 357
 <212> DNA
 <213> Enterobacter cloacae

<400> 5468
 agaagagctg ggcgagcgtc tggtagcggc gtggcagaag aaatacggcg cgtaagcatg 60
 aaagaacagt tcacaaccac ggtgagagtg aaggggaagg gcgacgcca agcgcgcgcc 120
 tttgccgacg cgctcaacca cgttcaggcc gcggtgatga aagcctcacc gcatacttta 180
 ctgcgtattg agccacagga tgtgcaggct gttcaggcgc aagaagcggg gcgaaaagaa 240
 gcgtttctgt tcttctttct gcgcccggaa agacgcacct acagcgtgga gctggatgtg 300
 accgtcaacg tgacagccat caatctcgac caggtggatt tcgtcacgca acgctga 357

<210> 5469
 <211> 240
 <212> DNA
 <213> Enterobacter cloacae

<400> 5469
 ccactgggtc tgatctctcc aggcgacgca ccgggcgggg gcaacagcag agagaagatt 60
 agccagcgca ccggcatccg gggcgattgc tgccagacgc aaacgcagcg cgttcgccag 120

cgtcaacagg	gtatcgacct	ctctgttttg	cgctgcggta	acctgaaaag	tgttgctgaa	180
cgtatcctgc	gcgtagtcaa	agcagagcgt	atcggcgggc	atctccagct	cacgcgctaa	240

<210> 5470

<211> 201

<212> DNA

<213> Enterobacter cloacae

<400> 5470

tcgagaagat	cctcaataaa	gcggtggccg	accataccgt	taccgatgat	agcggagtct	60
gactttgatc	attattgcct	cgatttcttt	tcaataattg	cctacgttaa	cgattcagca	120
ggggcactta	ttgatgcaaa	tcagatacgc	cttcacatac	cccttagggg	gtatatctat	180
gatttgtcag	gattgttata	a				201

<210> 5471

<211> 279

<212> DNA

<213> Enterobacter cloacae

<400> 5471

gagaagaagc	tgatccatgt	gagcttgatg	cgattgctgt	tagtcatgtc	tggcctgtta	60
aaagtaaaga	aaaacgcaat	gactgcgttt	gagcgggcag	atcttagtcg	cgaaagtgat	120
ctaattaaat	cttttcagaa	aattttgagc	acaattgcag	gttttaacgt	gatgcagatc	180
acattatatt	gcggggtgaa	caatcgtttg	cgcggttaata	attgtttcaa	tttggtaaaa	240
ttaggtaaaa	gactggtctg	ggttcatact	gctctttaa			279

<210> 5472

<211> 183

<212> DNA

<213> Enterobacter cloacae

<400> 5472

ttggcgtcag	aacagttcgt	gcgtctcgcc	gttatcaatg	atctctgtac	ccacctcatg	60
caccgcctgc	gtggttggct	gcgtaccctc	gatgaaatac	tcggcacggc	tattaccgcc	120
attcgcgagc	tgtccagtgc	tgcggtcaat	attgatcgtg	acaatgcccg	gcggaggcgt	180
tag						183

<210> 5473

<211> 399

<212> DNA

<213> Enterobacter cloacae

<400> 5473

gagcgtata	ttcatagact	ctttatTTTT	ttaaccgtct	cggcaaattgc	tatgggcaag	60
tttattatTT	acatgctgaa	tatattattc	tgtggttatg	tactggctac	atgcctcatt	120
tcttttggtta	gttttgataa	ctgggaggac	cgtacaatcg	caataacaat	catattagga	180
agtgcacaac	ttattgcgac	attacttaat	cgggcattgc	ctcataagtt	acatatttta	240
ggggggatag	ctgaactgat	agaagggtccg	ctattagtga	ttggcgcaat	tgtatgtctg	300
gatgtgtttg	aaccctggcc	tatgaagatt	attggaatgt	ttgcgtgggt	tatttttatg	360
atgtttcggc	catcatttac	gaaaagggaat	aaagaatga			399

<210> 5474

<211> 213

<212> DNA

<213> Enterobacter cloacae

<400> 5474

cttatcgcaa	ccaacgagga	ggtatttatg	acgattcgca	acaatcggac	agaaattttcg	60
ctggctcttg	gtgaagcggg	tttagacatc	gtgcaaaaag	gccatgaagt	atcgcgagaa	120
aatctcgccc	aggcgatgaa	aatcaaagcg	gagaaaagagc	gcgacgacga	gcggcttctt	180
aactactgga	aggcgtgtaa	tatgctgggt	tga			213

<210> 5475
 <211> 450
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5475
 cgctttctgg ggggcgctgg gctgcagctg ctttgcattc tgatgaaaaa caccactatg 60
 ccgccccgga tcgacctggg gctgttcttc cttcgctga ccggcagcct gctgctgctg 120
 tacgtccacg gcctgccgaa ggtgctgcac ttcagcgaag agctgacgcg cattgaagat 180
 ccgttcggct tcggtcctta cgccagcctg atcccggcga ttgtcgccga ggtgatctgc 240
 ccgctgttta tcattgcggg cgtgtacacc cgcttggcgt gcctgccgat tatcgccgtg 300
 ctgctgggtg cgatgctggc ggtccaccgc aactggtcga ttgccgaagg gcagtttggc 360
 tggctgctgc tgattatctt caccaccctt gccctcaccg ggccggggcca gtggcggctg 420
 cagcgtaagg cagcggagag gttcgcatga 450

<210> 5476
 <211> 303
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5476
 catgtaggcg ggcgtgccgc cagacgcggc aagccgggac tgggagaagg cgtcggagggt 60
 gccgcaggaa agaccgaagc tgcacagacg gcagggtggcg tcgtgatgaa cgaagatcgc 120
 cccggggttg atatcgccgt ggatcagggt gtgctgatgc atctggcgca ggggaccgca 180
 gatgcggatc gccatctcga taaagcgggc gatcccgga atcgcccttac ctgcccggca 240
 cgccagcagt tcaaagcaga atggcgcgta gaccagcgca aaacgtccgc ggtactgggt 300
 tga 303

<210> 5477
 <211> 303
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5477
 cgccgggttc ggctcgctaa ttcccgtcgg cgggctggtc cctcatccgg ctccgctg 60
 cctctttctc tggagttcac aatgagtact gggctgatat cccttgcggc aggcgtattg 120
 attggcctga tgtatgccgt gctgaagggt cgctcccccg cgccgcccgc gctggcgctg 180
 attggcctgc tggggatgct ggcgggtgaa caggcgatgc gccatctttt atcccgcgat 240
 aatccggctg ccgtgcagggt gacgggtccc cacgttcaac acccgaccgg agcgtcatca 300
 tga 303

<210> 5478
 <211> 360
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5478
 tcgaattgcy cggggcagcg acaaactatg gtagagaata ttgagcagcg catctacgcc 60
 ttagtcagac gctataacgg cgtttatcta atgaataacg aagagaagca aaaattactg 120
 aatgcaaaaa ctgatttggg tactgacatg cagcttgatg tctactgaagc agaagatttg 180
 atggacgagt tttttaaaga atttaatggt gatagaggga attttaacat aaacacctac 240
 taccctgatg agcctttttc atggaatcca ttcaaaaaat tcccagtggt gatggttcca 300
 gatttcacta ttggaatgct tatcgaatcc gcaaaagcgg gcaaatgggt atacgactaa 360

<210> 5479
 <211> 462
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5479

actatggaca	caacagaaga	actaaatgaa	acgtatTTTT	atgctggcag	aaccaatctt	60
accgcggcag	gactTTTTTT	tatgatctac	tgtgaatcaa	ttgccgatca	TTTTggtatt	120
gacgatgtgg	caggaattgc	tgcgttatac	agtgggtgcta	ataatcaaac	gactagaaag	180
aaacccgcgg	gagctacgga	aggaacgtcc	cgagcctcga	aagccatgag	gaactatttc	240
aaacaggcga	aatttcctta	tggcattaag	ctgcctacct	gggttgggtg	gtacactccg	300
tggacagtaa	agtgtcgaat	ggatatcga	gtgagtgcgt	ttgttggcag	gacaataccg	360
ttaataggca	tagtgatatt	agtcgctgat	gtatcactaa	tcacctatgc	tgcaatacgt	420
gattataatc	gaattgcgcg	gggcagcgac	aaactatggg	ag		462

<210> 5480

<211> 318

<212> DNA

<213> Enterobacter cloacae

<400> 5480

tccggctgcc	gtgcagggtga	cggttcccca	cgttcaaacac	ccgaccggag	cgatcatcatg	60
aaggcctgga	ttatttcgct	ggtgtgcggg	gccgcggctg	gggtacttta	cgccctgctc	120
gacgtgcatt	ccccggcgcc	gccggtcgtc	gcgctgcttg	gcctgttcgg	catgctggtg	180
ggtgaacagc	tgatccccat	cggacggcgt	ctggtgagcc	gcgaaccgct	gaccctggcc	240
tggtttcgtc	atgaatgcgt	accgaagatc	agtggtagcc	cgcccccagc	gcccgcgaag	300
gaaagccgcg	acgcgtaa					318

<210> 5481

<211> 327

<212> DNA

<213> Enterobacter cloacae

<400> 5481

tgtttcaaaa	tgctaataga	gcgtttaagc	cttaatttat	gcgctacagt	taatttcgtg	60
caacaggcaa	ataaccgaaa	caggagaata	attatggtag	ataaaagcgc	aattaaggat	120
cacactcagg	ttgtcgccag	ctgcggaacg	cacgtcgggg	ttgtggacca	tcttgatggg	180
gagcgtatca	agcttgcgaa	gagcgatccg	gaatcgggcg	gcaagcacca	ttttattcct	240
ctcggctggg	ttgataaagt	cgaagataat	aaagtgtgcc	tgaccaaaaa	ccataaagag	300
gtttttgctg	agtggcagga	agcataa				327

<210> 5482

<211> 645

<212> DNA

<213> Enterobacter cloacae

<400> 5482

ttcagtcctt	ttcattttaca	ggaaattatt	gacccgtcca	tgatgaaata	cattagagat	60
agccttgcat	taagtgcctt	ggttaaaagt	aaaatggcga	ccgatgatct	caaccagctt	120
gaaacattaa	aagaacagtt	aaaagatcgg	ttcggcgctc	ctgtgggctg	ccatatgaca	180
ggaattcctt	tggcagtgag	cacgttactg	gctatTTTT	gctacgccat	gctgcaagtg	240
tccctctggt	tgttgctggt	tcgctggctc	ggcttaccgg	aattttaagg	tatgatggga	300
gtattcattg	cagcgattgt	atattgtctg	gtagtgatga	gcacgatgtt	tctgactaca	360
cgaggttctt	tacctggata	taaactgcat	attttcgtca	ttacgctgac	aggcataatg	420
agcatcattt	atttcattctg	gacggggatt	tcgcttttat	tcggccctgt	tgagaactac	480
acaccgcaaa	taacctcttt	gctggggctg	ggatttttct	ttctgaacat	tatgtggatg	540
aattcatcga	ttttttaccg	ctccattgcg	ctaacgctac	ataatcgggt	ctggcgtaag	600
cagctcaaaa	tcgaggcaag	gccaatgtca	cacctcaaac	gttga		645

<210> 5483

<211> 183

<212> DNA

<213> Enterobacter cloacae

<400> 5483

caacaaggag	ttttaacatt	tgatgctgga	agaattgttg	cagctaacct	aatagcaggc	60
aaggagacaa	ccgtccta	attcgttttt	aagattaata	ttaagagcaa	agttttaagg	120

ttttcggatt ttctttatat tgacaaaata gatcaccgga ccattttattg cgatatttcc 180
taa 183

<210> 5484

<211> 1059

<212> DNA

<213> Enterobacter cloacae

<400> 5484

acactattcg	gaacattcct	aatttttaagt	gttaacagga	cctttactct	tgttttatta	60
acaatcaaca	tttcacacgg	acggagagat	gaagtgcatt	tcacaggaca	attttcaaag	120
gatcttcag	attacgcact	cgcacgcagt	cttggctctg	cctctggcgg	cgatataaat	180
ttcacagcac	ttgcaggcca	actggactgt	agcagaaatt	ttagccaggc	cggtattatc	240
tactcagacg	gtacacgtca	gtggctagta	cggccatcaa	gaaggattgc	tacaccaaac	300
gaaagctcgg	ttagtcatgt	agtcataacc	aaagtaaattg	cgcatttagt	taaccctggt	360
caggcaacaa	cggcgacgat	taattcccct	tccctggcaa	ctgaaattgg	ttcaacggcc	420
atctctgctg	gagccgcaat	tcttactggt	gtacttgccg	caggggccgg	tatggctata	480
cctctcactg	cagggctctc	cggctgtata	gccgctgtga	tttagccgg	tggtgtagca	540
actggaattc	aatgtgcaaa	tgggcttggt	cgactatcgt	tgattgctat	gaatcatgat	600
gattacgttg	cgtggatgga	ttcccaggag	tggtatacag	caaccaaacac	agccctggat	660
gcgattttct	ttgccggggc	tgtgcgggt	ttaaaaagcg	ctgcattaac	atatgcctt	720
cttaaccggt	catcgtctga	gagtttgctc	tctttattac	aaaaaatgag	ccgggccgac	780
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ttgctcttac	agcgtgagtt	gctgaatacc	atttcaaatt	cttctgcctt	cggttgaagt	960
gccatctcag	gaaatatcag	aaatccacag	aatgttgcac	aaacgggtaa	atacattttt	1020
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<210> 5485

<211> 225

<212> DNA

<213> Enterobacter cloacae

<400> 5485

ctatatctga	aaaccatgaa	aaactttgac	aacgaaatga	gaattttctc	tctaataattt	60
tctgttttta	taattgagct	cgtatcattt	tactttaaca	tatcaggggg	ccctacggct	120
gtaatgagtg	ctatcgttgt	atcacaaagt	tttgctggcg	ctcaataattt	aaaagctcgt	180
aatcggacaa	tcggcagctc	tcaccaacgg	ccggaaggtc	agatt		225

<210> 5486

<211> 186

<212> DNA

<213> Enterobacter cloacae

<400> 5486

cctttgagaa	ttcacccaaa	gcgctcgcgg	gctttcagcg	ttaaagctgat	ttaccgccgg	60
tggggaattt	cgcccgcgcc	tgagaataag	cgagataact	ataacgctat	tgattaccct	120
gggcaatgca	taagcttcaa	acaattttgt	ttaaaccgcg	gcatgacacg	ctacaatagg	180
cactaa						186

<210> 5487

<211> 273

<212> DNA

<213> Enterobacter cloacae

<400> 5487

cttcacccgc	gcgtcgatga	gatcgacgat	gtcggttctg	gcaagcaggt	cattgatgaa	60
aacgcgtggg	attcttccgg	ccatatgcc	caaaaattta	agcgacttat	aaacgaaaac	120
aagccgcgga	ttccttccgg	aagcacggcc	ttacgactac	aactctgtct	gtcaattgag	180
ggctgtggcc	ctcaacagat	tagtacagac	gagtacggcg	tgcgttttcg	cgagccagtt	240
tcttcgcgtg	acgtttcaca	gcggaagcct	tag			273

<210> 5488

<211> 363

<212> DNA

<213> Enterobacter cloacae

<400> 5488

atgaaaaaaaa	taatcgtgct	atcactttctg	ggcgtagtg	ttgcgggtggg	tgctgcggcc	60
agcatctatt	caaataga	accagaatat	attcagtcag	caaaaagccg	tgctcgatcg	120
tatttaacca	gcgattacg	acgtgtcgaa	tgtaatagca	cccaggtaag	tgaagatcgc	180
tgggagctgg	gctgtaccaa	taaggcgaga	ggcaaacct	tccagttcgc	cgtttaccca	240
cccagacagg	caccgatgg	gggtctctcg	gcgttttctc	tcgaagcgat	taatgatgat	300
gcccgcacga	gtgcagatca	ggggctgatg	cgttatctgc	aaattaatac	caaagcgggt	360
taa						363

<210> 5489

<211> 312

<212> DNA

<213> Enterobacter cloacae

<400> 5489

ccaatattct	ccacgctcat	atcgtaacag	cgtgtaagat	atatggtcac	aaagggcagc	60
gttgccccgc	ggccaattgt	taataacaat	gacgatgcca	gcagcgctgc	ggttgagcgc	120
ctgattgatg	gtttcatttt	cctgccccgac	aaatgcttat	gcttttttgt	tgtgttatta	180
caggattatc	atgggatcgg	cagcttgat	agcacccaat	ttatccgcaa	gtgcttctca	240
tcagtaccag	aattaatgat	cttctcgcgg	ggctattttt	tctgttacct	tgaagtgttt	300
acaaaatttt	aa					312

<210> 5490

<211> 660

<212> DNA

<213> Enterobacter cloacae

<400> 5490

aaaggtgaag	gaatacatta	tcggtactat	ccagtcactg	gcggtttttt	gatgaaaatt	60
ctgcacttgt	taaccggaca	cgtttcttac	gagctcctgc	aacacggaaa	acggattgag	120
gacgctattg	gccgtcatga	caatgactta	ttaaaccatt	ccacaccoga	actggagcgg	180
tatttttcac	gcccgccttag	tgagctgcca	cggaaaaatg	cttatccggg	agcgatatta	240
ttaccgctat	ttctgggtgat	ttttgcgttt	aatttgctgc	catttctcca	gacaatatcc	300
agtatgtcgc	caacgctaca	tacactcagt	tttttgtcc	catcgctagc	gatacttctc	360
ttcctgatgc	tcgcgagtgc	cttccttgcc	cggggataca	cttcagggct	atcaggggtt	420
ttagcgcttt	tcatcatcct	gctgacatta	acggtactgc	aatggcttca	ctatctgacc	480
atttctgatg	gcagtagctg	gcagctgac	attgcaacga	tcgcttttgt	aattagccgt	540
atgggtgttaa	acagtcgagg	ctttgtgctg	ttcacgctat	attgtcgttc	gaagcgtctt	600
gccacgctgg	ctcgcacat	gcgcctaaag	agcggcaagg	ataatgtgag	gaacacatga	660

<210> 5491

<211> 234

<212> DNA

<213> Enterobacter cloacae

<400> 5491

cacgattatt	tttttcattt	attcgatcca	atccttagcc	agaaaaatct	tattgtaaat	60
gatttcccaa	taaatactagt	tgctctttgc	ataccagaaa	tgggagttaa	caacgtcgtat	120
atcgctttta	agaatagctc	taagcgcgtt	ttattgacac	cacaattttt	gacactctat	180
tttctcaaat	ttaaagagtc	gaataattac	tctatgaaat	tatccctacg	atga	234

<210> 5492

<211> 231

<212> DNA

<213> Enterobacter cloacae

<400> 5492
aaagtgaaga tagagtgtcg agtagcgctg cgcttaccgc acctggaaaa ccctaattccc 60
aggccgggta aggcgaagcc gtcccccgcc aaaaccaaca ccttagtggt gcaacatctc 120
ctccaccacc tgctccttgt acatctcatt cgggtagtag gtcggccagt tatccatctc 180
tttcagcagc gcctcgtggg aggtgttgcc cataaagata tggaagtgtg a 231

<210> 5493
<211> 189
<212> DNA
<213> Enterobacter cloacae

<400> 5493
cccggtcaag aagtcaaggt gccaccaggc gcggcggaat tcaccgtccg ttaccacatg 60
cagaccgcag gcgcactgct gttcgacaac atggcgaatg gcctcgtcct caaccgcgcg 120
aagctgaccg gcatcgatct caccgctggc aaattgcaga cgggcctgtt taacagagtc 180
cgggcgtaa 189

<210> 5494
<211> 222
<212> DNA
<213> Enterobacter cloacae

<400> 5494
aaaactgccg actacatcgg cgcggtacgg ggcgtggtgt cgctgcatgg aaatctcctc 60
tgtctgtcgg cgtaattgc ccacagtgat aattcatttc ttgaacattt agacttcttg 120
atgtctaaac gtcctaaaaa gatgtcatac cggctcgccg ccgacaaacg agaaaatttc 180
atctgtgttg aaataaattc atgttcacag ggcgggcgat ga 222

<210> 5495
<211> 339
<212> DNA
<213> Enterobacter cloacae

<400> 5495
atgcagcgcg ccgggcagat gccgccgggc aaaatgttca ggcttcccga caacgtgcag 60
cagaacaaag tcctgctcac cgctggatag cgctgatagg acatcggcgc agtccgtctc 120
gacgctcaga cgacgcagaa aatgccccac ggcttcctgc ggctcagcag ccggaaattc 180
agtaacatag ctcatgaatc ttctcattt gtggtgtttg tgtaaacact actctatccc 240
ttaattcaga acatgaatgc gtcgcctat gccagaaaac agcaaaaaga tgacaaactt 300
aagacatccc tcgcgcgcg cggtcgtgct ggcataatga 339

<210> 5496
<211> 249
<212> DNA
<213> Enterobacter cloacae

<400> 5496
caccagaaga ggatcgacgc tgagaatacg ccgagccatg accagtattt tacggttgtc 60
atgttattca tcatagggac atcagacttt aattatttaa ggttgcgagg tctgccctcg 120
ttctatattg ctgatgtgta tttattaagg agtacaaaag cgcacagtct ttattcagac 180
tatttgcac attacgcaa attcaaaatt attgtttttt gggttcgtct tccgcgaaca 240
catcaataa 249

<210> 5497
<211> 213
<212> DNA
<213> Enterobacter cloacae

<400> 5497
acaaccattg tttcaccatc ggcgagagtc tcttccgctg cgtgtgcgct ctggtatagc 60

gttgaaaaaa	tggcgagcgt	aagtgtagcc	ggggcaaadc	ttattatggt	attcatcaac	120
tcattttccat	ttgttaaaaa	tgcgatgacg	aatattaatg	atagtcattc	tcattacaat	180
aaagtgcacg	caatctccat	aaaatcttca	tga			213

<210> 5498

<211> 252

<212> DNA

<213> Enterobacter cloacae

<400> 5498

agcctggctg	gcggtctttc	ttggctctgc	cctgttctgg	atggtgggtg	ctcttcttgt	60
ctggaattac	tggggttgat	tatggtcatg	acggtgcgta	cagaagcgag	aaaagagatg	120
tgtcagcttc	gtgacaatgc	tcacaaagcc	cgtaaggcgc	cagcaaccag	cgtgccagct	180
tcctggaaac	tgacgccaca	gcagcaggcc	tttattgatg	tgttcgcgga	agacgaaccc	240
aaaaaacaat	aa					252

<210> 5499

<211> 297

<212> DNA

<213> Enterobacter cloacae

<400> 5499

ctcctgatcc	atgatattgc	ctctgtaatt	attgtggtga	caaaagaagc	ataccctcag	60
ccgatccgcc	tgaccacgtc	aaaaacgagg	tttggccacc	ctcttttcaa	cacgttattt	120
cgccagacac	ttaagattat	tccgaataca	gaagcaccgc	ttgcgacgat	atatttttgc	180
gttgtgtcaa	ctcttgtaat	aattcacgcc	acgttcacat	taggattatt	agctaagcga	240
actcccaaca	tccagattta	tttctcccta	accagtggat	ttaccgtccg	tttttaa	297

<210> 5500

<211> 426

<212> DNA

<213> Enterobacter cloacae

<400> 5500

gtccagttat	ttccccggag	tgattcgatg	aagagcctgc	cgttcttttt	cgctgtatta	60
accctcagca	cattaacagc	ctgtagttct	cccccaaccg	acaatggtga	aaaaattaat	120
catctgcaaa	ttccactggg	gttgccgggg	gaaaaatcgc	cgcaggtaca	gatatcgcat	180
atcgcgcttc	tttatcagga	aaataaacag	cagatcgaga	ccctaaccgc	cagcgtaaaa	240
tcacagtatc	tacaggacac	caccgcaaaa	gaaatttttg	ttgcggaacg	tgccgttcaa	300
cgcgtctatg	cctcgctgac	caagctggaa	cagctagata	tggttaacca	gcaatacctg	360
aaagataata	atgtcacggg	cctgcaaaaat	attcatatcg	ttcttgaacc	attattcacc	420
agctga						426

<210> 5501

<211> 843

<212> DNA

<213> Enterobacter cloacae

<400> 5501

aatgaccaga	cacatttttg	gaaggagtct	ttaatggata	ttgcgttgct	taacaggggc	60
tggaacagaa	catggtcaga	taccatgggtg	aatctagagg	cccggaaact	cgtcgaaaca	120
gcaaaccggc	tgtcagcatt	ctattttgcaa	gatggtctta	cacgtatcaa	gtttgtcgaa	180
gagataaaac	aggtttgcaga	taaagaattt	gaaacagcac	gacgagctaa	aaccgatgaa	240
gaatgcattg	catgcatcaa	aaatctgcgt	gctgaaacag	ataatctaca	cgaacaagaa	300
cgctgtttaa	gaaccagagc	cgcacagctt	tacgcgaagg	tcgagtttgt	taaggaaaaat	360
aataaaatcg	tcggttatgt	tatatccgcc	gtaaacgtgg	tgctatcagg	cgtggttctc	420
tttggtggct	ttatgatgtt	atccactatg	gggccgattg	gtatgctggc	tggggcagtc	480
ctgattgccc	atggaatgaa	cggattaacg	aaagaagtgc	tcaactttga	tcagccagaa	540
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ggattttaatc	ctaacacggg	cttggctctc	tataatgggtg	ttactctcgg	tgccagtggtg	660
tacagcattg	taggactcgc	tcgaaaaact	ggagcctgga	gattatttcg	ctggcttcca	720

cacgattact	atcgcaaagt	cagcacaatg	agcactccta	agctaacaat	gaagattgtc	780
ggttatgggtg	ttaaagcaaa	agtgatthtc	gatctattga	caaccgaaaa	tggaaccagt	840
taa						843

<210> 5502

<211> 372

<212> DNA

<213> Enterobacter cloacae

<400> 5502

ttgcttgac	aatcagcgat	tgggaaaaaca	cttctgggag	ataagggacg	agacgatatg	60
aaagtgactg	atgaggcttt	gttacgttca	gggtttacgc	agcccgaatt	gcagaagata	120
aaaagcaaca	ttgaaaaata	tggaggaacg	cttgagagag	ccataaatga	cctcgctagg	180
cgatttggtta	ccttggcggg	agtgggtggc	gtgtgtgcct	taatcctact	gctacttatt	240
gtcttcagct	cacctgatag	agcagttgca	tgggggctgg	cgatgatctt	tgggggttgcc	300
attatgtcct	tcgcgcagcc	gccggtaatt	tcctataaat	cctggcggtta	ccgaaaaact	360
atcaaggatt	aa					372

<210> 5503

<211> 204

<212> DNA

<213> Enterobacter cloacae

<400> 5503

gttgacacatt	tcctgtaccc	tggataccct	gagattaatc	ctaataactc	aaggggtgagt	60
atggctaccg	ggaagagaaa	gaacccaaaag	gaatcacctg	aagaagagtt	agatcgcttg	120
ctggatgagc	ttgaactcac	agaggagcaa	cgggagttta	tcgaatccat	gcgggaggat	180
aagggcgatc	ccagtagtga	gtaa				204

<210> 5504

<211> 219

<212> DNA

<213> Enterobacter cloacae

<400> 5504

tccgtgaagg	agacgatggt	cagcttcggc	gatgccgcgc	cggttcgcgg	gctgttgggg	60
tcgttaaaca	acagttttgc	cagctgggtc	ctggaagcgt	catctgacgg	tgcggcgaaa	120
ccgaacgttg	ataacgacag	cagaagtaag	gctattaagg	ctctcatggt	attttccttt	180
tgcacgcgac	aggtgtgtca	gcaccgcttc	gcggcttaa			219

<210> 5505

<211> 570

<212> DNA

<213> Enterobacter cloacae

<400> 5505

gtcttaaaaag	cattttcaca	gagaaatcaa	aaatttcggc	aattaagcga	aacggtgacg	60
actgccatgg	aacccaaaaa	tgaaaaagtg	cctgggataa	aagagagtta	tcgtttactg	120
acgttttgagt	acgcattttcg	tcaggtgggt	tttattgtgc	tgttagctat	tatcgtggcg	180
gcaattgccg	ggctgttttc	aagcgggtgtg	gtcagcgacg	tggagaaaac	aaacgatgca	240
aaatccctgg	ctctgagcta	tgagcgcttc	ggtcgccgcc	agaccgaatc	gcggatggcg	300
ctgacgtttc	cggtgacgtc	tgaggggaaa	tataccctca	gcctgaccag	cgaaagcagc	360
gacgcgtatg	agcccggcag	cgtctggcca	caaccggaca	gcatgtacag	ccgggggaat	420
accctgtttc	tcgtctacga	tcgtttacaa	cagaccgata	aatttaccgt	tctattattc	480
atcacgccgt	caaaagcagg	gaagtggaca	aacagcatcc	gcgtaaacia	cgagccagat	540
atccgttttct	ggcagtttat	ttacccttag				570

<210> 5506

<211> 366

<212> DNA

<213> Enterobacter cloacae

<400> 5506
aaactaccac cagaaacgcc aacttcgggt ggcagactga accggttttg cgtaccgacc 60
atatggaaaa tcggcgcttc aaaagaagcc ccggttcagt ccaccataat agaagatacg 120
gattataccg cagctaaaaa aagagtgaac gaaaccaatg atgttgcggt agcaacatct 180
ttccatatgt gtgtaatcag gacgccaatc ccgacacctg attttgcaagg tgcgcgcgca 240
ttttattact gtgaatttat ccagcaactg acttcgaaaag aatctggaaa gcgcctcgca 300
aaattcctct gcggtctgtt gccctcacc ccaaccctct ccacggggag agggagaaaa 360
cactaa 366

<210> 5507
<211> 633
<212> DNA
<213> Enterobacter cloacae

<220>
<221>unsure
<222>(80)

<400> 5507
tgtcgaccat ctgccttgcg gctcagcgca gctatacaac cggggaatcg gtctggtttt 60
cgtaccgcct cccagacctn gaaaaacgta ttcggcaaaa cagcgttatg gctggtcggc 120
ctttgcgcca tgctggttgt cggcctgtat atgcacgtct actggaacct gcgccacccg 180
gcacctgaac cgatcaacgc cagcgttgcc aaaccggaaa cgcagctttc ggaaatgcat 240
tacgtgtacg tgagtaaacc gttcccgcat ccgcagccta aagttgcgcc agtgcattgt 300
gatgttccac cgatgcagga tctgccgatc agcagtgatg atgccgactg gcagcaggcg 360
cccagggcg cgggtgccga cgatacctcg cgggatacct taccgggaac cgaggcgcat 420
gagcacgata tcgccccgcg cagcacgagc agtgaagagt catcattaac ggaattattt 480
aagcaggcat taaaagagca ggagcaggat tattctcaag gaaaaattcc cgcgcgcgccg 540
gttgacgaaa cgcaggataa ttcacaagcg agtgtaaaaa acagtggaaa tagccgttct 600
cctttgagtg agaaaggaga acggcgggag tag 633

<210> 5508
<211> 186
<212> DNA
<213> Enterobacter cloacae

<400> 5508
cgtcctgacg tttatcctgt cgtctcccct ttacgaatgc gctttccggt cggttggtacc 60
gtgacgcttg ggcaatacgc tgagactggt ttgctgcggt ttaaacgcgc aattctttac 120
ttaattgagg aatttcggca ttatcttgcc ggttcaaaac ttggtagtga taccacagag 180
gattag 186

<210> 5509
<211> 477
<212> DNA
<213> Enterobacter cloacae

<220>
<221>unsure
<222>(187)

<400> 5509
ttttcagctt ttaatatgga aattatgaat atggaaaacc agtctatctc ccagctctat 60
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gaaatcctcc tcgactgcaa atcacttccg caaacgcagc ccggttgccg ttgcttcgga 180
gcttacntgg aagaggtgaa atccggcctc acagagtcaa tgcgtgattt tcagggtggt 240
gaatttgagg acgacgcgga gcaaccgcga caaaaagagt ggttgctgga agataccgaa 300
acgaaatgcg actactgccg ggcgttaaag catgtgctgc tggatcgca tgttgaccgc 360
gatatgctgc cgcacctgac gggactgctg catgacatca cccacgcgat ggctgaagat 420
ttaatcgtag ccatgaaccc gtgcatgact atacatctgc cgacacagcc aactaa 477

<210> 5510
 <211> 183
 <212> DNA
 <213> Enterobacter cloacae

<400> 5510
 gagcgttggt ccttcttccg cctgggtgagc atattgaatt tatatgcaat agaaatgatt 60
 aagtattatt ttaatcacia aaaaaagcgg ataaccatc aggttaccgc ctccatgaat 120
 accgttttat gcatttgcgt gggttaattcc tgcgctcaaa cgctaacgcc ttacgctcga 180
 taa 183

<210> 5511
 <211> 192
 <212> DNA
 <213> Enterobacter cloacae

<400> 5511
 tcacacctgt taaagttata ttttagatac atgtttaagg ttatgcctgt gccacagcag 60
 agaaaagtgc tttcttatac taagtggagg gttattgatt tagcgcaatt ttggcggcag 120
 gttcactacc gccaaagcag tatcaggctg agaagaacgc catcagaatg ggtaccagca 180
 ggctcagaat aa 192

<210> 5512
 <211> 2325
 <212> DNA
 <213> Enterobacter cloacae

<400> 5512
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 gccgcggtat gcctgacct gctgggcgtg ctgctgtcgc tgctgacctg cgccgcggctg 120
 aacagcagcg tgctcgccat gctgccgaaa cagacgctcg gcgcgatccc tcccgccttc 180
 aacgacggat ttatgcagcg cctcgaccgc cagctcatct ggctggtcag ccccgccaaa 240
 cagccggacc cgcgctggc gcagcagtgg ttaaccctgc tgcaacgcag ccaggcgctg 300
 agtgctgtaa aaggtccgct ggatgccgcc gggcaacagg cctggggaga tttcttctgg 360
 cagcaccgca atggcctggc cgatccggcc acccgcgccc gcctgcaaaa cggcggtgaa 420
 gcgcaggctc agtggatcct gtcccagctc tactccgcct tttccggcgt gagcggcaag 480
 gagctgcaaa acgatccgct gatgctgatg cgcgcgcgcg agctcgcgct ggccaagaac 540
 agccagaaga tgcagctgat ggacgactgg ctggtgacaa aagatgcggc cgggaactac 600
 tggtatctga tacacggcga gctggcgggc tcgctgcttg acatgcagca aaccaccag 660
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actcaggcca	tcagcagctt	tggcattgtg	ctgggtgagcg	gtatcttcac	cgcgttcctg	2280
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<210> 5513

<211> 312

<212> DNA

<213> Enterobacter cloacae

<400> 5513

ccgggtcatc	ggcgacgac	agcagcgttt	cgccactctg	catgttacgg	acggttttac	60
gcaccatcat	taccggctcc	gggcaacgga	ggccctgagc	atcaagcgtg	tggctctggc	120
tggaaaacag	gtcggtcatt	ttcttctcgt	tcaggtaaaa	acggctgtag	tttacgcccc	180
gctatcgcca	atgcaaacca	ggttaacgat	tgcgtgaaaa	ttagccattg	caaagtgtcg	240
tcaaagcagt	atcatgcggc	ggcttttattg	ggttcctca	ccccaaatat	taatcaaaaa	300
ggtacaatat	ga					312

<210> 5514

<211> 375

<212> DNA

<213> Enterobacter cloacae

<400> 5514

ctgcgcagct	acaggagttg	tttcatgaag	atccctgaaa	tcgggcgccct	ccagcccgat	60
ccacagcatc	tggagataac	cttttatctt	gaccttgacc	tgctctgggt	taagggacat	120
ttcgccgtac	agccgctgct	gccgggctg	gccagctcg	actgggtaat	gcattacgct	180
gccgcgctgg	cgccgggcta	ccgttttcac	agtattcaga	acgtgaagtt	cgccgccccg	240
ctgttgccgg	agaatacggg	cacgctgctc	cttgccctggc	agcccgaacg	cgagatgctg	300
acctttagct	accagcgcca	tgcgggtaac	gagcgccaca	ccgccagcag	cggggaagatt	360
cgcttatgtc	agtaa					375

<210> 5515

<211> 183

<212> DNA

<213> Enterobacter cloacae

<400> 5515

agttgtaaag	ttttaaaaaa	acacatacaa	aacatgatgc	taagtgtgta	tcacacgctg	60
ttccaacatt	ataccttgat	gttcttgag	gaactgcaat	ttacaggagg	aaaaagggtg	120
ttttgtagtt	atctggcggt	acgtgacagt	gttggtcaga	tacttccacc	tcttcagagt	180
taa						183

<210> 5516

<211> 723

<212> DNA

<213> Enterobacter cloacae

<400> 5516

atgaaattta	cacttaccct	tatcgactgg	caggcaagag	cgccaggact	cagcgatgcc	60
gacgaatggc	aggcatggtc	acgccggtct	gacgccatcg	atcccgtgc	accgctggcg	120
aaactgaccg	atctgccgat	gatgaccgcc	cgccgcctga	attcaggcag	caggctggcc	180
gtcgatcttg	gcctgatgat	gctgcgcaaa	caccgcatcg	atgccgtcgt	ctacagcagc	240
cgatcatggg	agctggagcg	caatttccgt	attctccagg	ccctggcggc	agaacagccc	300
gtttccccc	ccgattttgc	catgtcggta	cacaactcgg	cggtcggcaa	tctcactatc	360
gccgcgcgtc	agcctgttgt	ctcttcgtcg	gtttccgccc	gtatggatac	cttcacgacg	420
agcttgtgcg	acgtgctgag	cctgctgcat	gcgggatact	cccgcgtatt	gctggtggat	480
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ccctacgcgc	tggcgctggt	gattgaagcc	ggaaatacgc	tcagctgtga	aacgcacgtc	600
aaccgcacgc	ctgaagagcc	cgcgctgccg	caaagcctcc	agttcctgcg	ccattacctg	660
cgggacgagc	gccagttcac	cctgccgggc	gagcgctgc	tgtggcaatg	gacgcgccaa	720
tga						723

<210> 5517

<211> 819

<212> DNA

<213> Enterobacter cloacae

<400> 5517

cagaacaaca	aacgatttat	caggaagtct	ctgcgcttct	tattacgctg	tttgaaatcg	60
ccccggagga	tattaccctt	gaggcacgtc	tttacgagga	tctggacctc	gacagcattg	120
atgccgtcga	tatggtggtg	cacctgcaaa	agaaaacggg	ccataaaatc	aagcctgaaa	180
ccttcaaagc	ggtgcgcacg	gtgcaggacg	tcgtggacgt	tgtggaacag	cttcagcgcg	240
acgcgtaacg	tgcgttcgat	tcgagttctt	cccgccttga	cggggctgat	gctgctggca	300
tggccgtttt	tgatcggctt	cgggctggcg	aataatagcc	tgcacgggat	actgcccgtg	360
atggcgctgg	tgctgctgat	gcgcgtctgc	caggcccgtc	ggcagggcgg	ccccctgcgt	420
tatctgttcg	taagcgtggc	gctggccggc	atagcgcttt	gcgcggcgag	ctacgtcctg	480
cacgcgcacc	agtgggtgct	gttatatccg	gtggtggtga	atctggtgat	gctggtggtg	540
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ccggacctct	ccccgctcgg	ggtacgttac	acgcgcgggg	ttaccaggt	ctggtgcggc	660
ttttttatta	tcaacggggc	gatcgcgctg	tttactgtat	tacatgccga	tatccgtctg	720
tggacactgt	ggaacgggat	gattgcctat	ctcctgatgg	gcacgctgat	ggctggcgag	780
tggctggtgc	gacaacgggt	gaagaaaaac	gatgcttaa			819

<210> 5518

<211> 759

<212> DNA

<213> Enterobacter cloacae

<400> 5518

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cggctacacc	attcaggtgg	cggtggaaga	agcaagccgg	gagatgtgct	ttgtcagccc	120
ggccattctg	ttcgaacgca	tggggatcgc	gccatgaaat	ggataacgct	actcgcgctg	180
ctggtaagcc	cgctggtgaa	cgcggtcacg	ctggatgaac	tgcaacagcg	gtttgcggag	240
caaccggtag	tgcgcgcaca	cttcgaacag	atacgcacga	tcaaggatat	gcctcagccc	300
ctgcgctcgc	agggggagat	gctaattcgcc	cgcgacaatg	gcctgctgtg	ggatcaaaaa	360
gcgcggttcc	cgatgacgct	gctgctggat	gacaaacgga	tgggtgcagat	cgtcaacggt	420
cagtcgcccg	agaccattac	gcgcgacact	aaccgcgaga	tgtttcagtt	caaccatctg	480
ctgcggggcg	tgttccaggc	cgaccgcaag	gtgctggaag	agaacttccg	catcgatttc	540
aaagacctgg	gcgaaggccg	ctggctcgctg	gtgctgacgc	ccgtcaccac	gccgctggac	600
aagattttct	ccacccttga	tttgaagggc	gcgatctatc	tggaatccat	tcgcctgaac	660
gataagcagg	gcgacacgac	ggatatcgcc	ctctcccgcc	accaactgac	gcccgcggcg	720
ctgactgatg	cagaacgcca	gcgctttgcc	gcaccgtaa			759

<210> 5519

<211> 594

<212> DNA

<213> Enterobacter cloacae

<400> 5519

caaagagaac	ttaccatgac	ccgttttcatt	cgccctggcg	cagtgatgat	ggccctggtg	60
ctggcggggt	gtagccatac	gacgaaccgc	gatgacgcgc	gccctcaggc	ctggctccag	120
cccgccaccc	gcgtcacgct	acccccgccg	ggcatcacgc	ctgccatccg	cgcgcgagag	180
ttgcttaccg	gcagttttta	aggccagacc	cagtcgctgc	tgggtgatgct	gaacgccgac	240
ggaaataaag	tgacgcttgc	cggcctctcc	tacgtcggga	tccgcctgtt	cctcgccacc	300
tacgacgaca	ccgggatcca	catcgagcag	tcggttgtga	tgccgcagct	gccgcccgcc	360
agccagggtc	tggccgacgt	gatgctgagc	cactggccgc	tcagcgccctg	gcagccgcag	420
ttgccgaaag	gctggacgct	gaacgatact	gacaccagac	gcgaactgcg	caacccccgat	480
ggcaaactgg	tcacggaaat	tgtctacctg	aaccgtaacg	gcaggcgcgga	accgattagc	540

attgtgcagc acgctttttca ctaccacatc accattcaat atctgggtga ctga 594

<210> 5520

<211> 672

<212> DNA

<213> Enterobacter cloacae

<400> 5520

gacgtattta	tgaccaatat	gattgccgac	gaagccgtgg	cgaagtccag	cgtgctctct	60
gtctttgact	ttgatggtag	gttgacgcac	cacgacagtt	ttatcccgtt	cctgcgcttt	120
gcctttggca	agcgctactt	tgctggccga	ctggtgcgca	tgccctgcc	tacgctgcac	180
tgtgtgcgcc	gcaagctgac	gcgagatgag	ctgaaagagg	tgttgatcaa	aaccttcctg	240
acgggggtgg	atgagcactg	gttacgtcag	caggcggaag	ccttctgtga	aaaatactgg	300
aacaagctga	tgcgcccga	aggtgtgctg	gccgtcgcca	acgaggtcaa	ttccggtgcg	360
gaagtgcga	tttgcctctg	ttccccggcg	ctggtattgc	agccgtgggc	cgataagctc	420
ggcattaagc	tgattggcac	gcagctggaa	gtgaaagacg	gcaagctgac	cgggcggatc	480
accggccaca	actgccggtg	tgcccagaag	gtggcgaggc	tggagaaggt	gtatggggat	540
ttgaacgcgt	atcacctgcg	cgcttggggc	gacacgcgtg	gcgaccacga	gttgctggcg	600
gcggcgagc	atccacactg	gcggcatttt	catcatccga	gcaagcgccg	aaattcacca	660
attaagggtt	ag					672

<210> 5521

<211> 717

<212> DNA

<213> Enterobacter cloacae

<220>

<221> unsure

<222> (520)

<400> 5521

aataaacgta	tagcaataat	gtacgggaac	aacgagatcg	tcagttatatt	acaggccaat	60
aaaataacttg	cgcttaaaact	cgaccatgct	gttactgcgg	tcggccagaa	cgtcaaaaaca	120
cagggtgaata	tgatagggaa	agggcgccact	cggctgttgt	attacgcctc	atgtttcact	180
gatgaataca	atgatgtttg	cctgagacag	aagagcgaag	acctacgctt	cagagatgcc	240
gtttataaat	tagtaagcgg	tgtggatgta	gtctatgaaa	tgcttagact	gtattttgag	300
gaagttttca	aatacaaaaa	tcctaaacag	ttagagtata	ttaaacagcg	gctaattggct	360
gtaaatgtcc	acatcgctgc	ggttagcctt	accggtgccg	ggtttacatt	agccgttgcc	420
gcctgcgttc	gccttgattc	aaatatcagc	ctcgaattaa	gcgccattac	cggaagatgg	480
gcttcccag	gtattgcttt	tattgggctg	tatgggtan	tacagcaagc	cgccgatagc	540
gcgcacgtc	tgtacgttga	atttccccgc	tggtactcgg	cactttatgc	tcaagggctt	600
gaaatgcttt	attttctcat	tgagcctgtg	tttcgctgga	cggacgcgac	acgtgcgcta	660
tgggcatctg	atgacgacat	cgcggatatc	atcaccaggt	tgatcagatt	acaatga	717

<210> 5522

<211> 732

<212> DNA

<213> Enterobacter cloacae

<400> 5522

ggatgcgaga	tgaataaaaac	gtggaccogt	attgtgattg	tcgtcattgc	ggctgccgcc	60
gtggcggttct	gggtgttttt	cgacaggcag	cgcgccccgg	aacggcagat	ggataacgcc	120
cttaacgcga	tgccgcctg	gcaggtgatt	aaggagcagg	agcccgcgct	gcacagcgc	180
atcctcgacc	agatggccgc	cctgcaaaaa	gcggcgagc	cggagcagca	gattatcgac	240
accatccagc	cgcagatcct	gcattctgcag	atgtcgcgcc	tgcagaacgc	cccggacgcc	300
aacgtggtga	actacatgac	catcaacatg	gagcagaccg	ccgccatcca	gaaggtgagc	360
gacgacgcct	gcttcgcgtt	cctctaccgc	atggtgaagg	gcggcatcaa	cccgatgcgt	420
atgctggata	aagacctgat	gacgcggcgc	atgcaggccg	acgccgacat	gatgcgcgcg	480
gcctacggca	aaaaccgcca	caccgtgacc	ccggccgaac	gcgaggcggc	tgctcgaggat	540
gtgcggccga	ttatgaagca	acttgccgat	aagtacggcg	aggacatcca	gctgctgcag	600
atgccggaga	aagcggtggg	caaagagaag	ctctcctgcg	atatggtgca	ggagatgtgg	660

gccaaaggctg tggcgctgcc ggagcagaag gcggcgaggg tgatacggct ggcgggtgtct 720
gagctggact ga 732

<210> 5523

<211> 237

<212> DNA

<213> Enterobacter cloacae

<400> 5523

gcgcggctgg caggggattc tatatatccg tgtgcaagtg cggaagacgc aaccgttaat 60
gtggttaccg ccagcgcaat tttagagagt ttcattcacc atccattaat tagaatagag 120
caaggcagcg tcagtcctatt aatggagtg cggatgcgtc atttcccga gagagtaaaa 180
atggtcgaag taaaaaaagg cagccagagc tgccttctct ttcttgaaat aaattag 237

<210> 5524

<211> 1119

<212> DNA

<213> Enterobacter cloacae

<400> 5524

actaaggaac ggacgatgcc ggttcatcat gctatctggc ggatagggga gcatccccag 60
ccgctcacca tcagcaaaact agccagcgag caactgctgg agaagatgat tttaaacgac 120
cccactatcc tctctgatca gtggatgac atcgccatc aggaaaatac gctcgataaa 180
gggcgtatcg atctgctggc gattgcgccc gatgcctcgc tgatcctgat tgagcttaag 240
cgtgaccgca caccgcgtga agtagtcgag caggcgctgg attacgcctc ctgggtggat 300
gacttaaccg ccgaccgcct gtcgcagatt tatgaaaaat tttctgggtg cggaatcta 360
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catcaaatca ttatcgtggc ggcgagagctg gatccctcca ccgagcgat tgatcgattat 480
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caggccactg ccggaacaag tgccaatgct aaggaaccct ggaatggcga gttttatgct 660
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cctgtaaaaa ggctggaac cccgtccgag ctccaagcgg tgaatgaggt aggtttcttt 1020
ggcaaccaa acacggtctg caagccaacg actcccaat ggcgttttac tgtagaaaaa 1080
ttgaagcgct atttcacgca atgggataca gagaaataa 1119

<210> 5525

<211> 282

<212> DNA

<213> Enterobacter cloacae

<400> 5525

gtggatctta tgacgttgac gaataggact aaaaccattc tccgatgggg agggatttgc 60
attgtcagcg tgggttactt cctcggactg tttgtagcct cgcaagcatt cgcggttttc 120
tctgaaaatc agactcttgt ctcaaactct gttccattga gagagtatta ccaagcggtt 180
gattcacttg gtcaagctac aagcgggtgtt tttgatgcag caatttatgg tttcgtgac 240
agtgtacctc tgatcctact tatcttcaaa aaggtgagat ga 282

<210> 5526

<211> 210

<212> DNA

<213> Enterobacter cloacae

<400> 5526

ttccgggttt gccatggctc aatcctcttt aaagtgcggc agatacttct attttcacac 60
acggacgggt ttgcctccac ctttggttga aagatttgtg aaacggggtt gcaaatgaat 120
aattacacat ataaagtga ttttaattca ataagtggca ttcgccatgt gaggataaaa 180

tgtctgatct gtacaagaaa cacttttctga

210

<210> 5527

<211> 456

<212> DNA

<213> Enterobacter cloacae

<400> 5527

ccttatacag	gcattattaa	aatgaataaa	ctcatttttc	ttgtgttatt	cagcacagcc	60
gcattggggg	ccgaagattt	tcagataccg	atgcagcgcg	cccttgaatt	caatcgctgg	120
tacgtcaaac	aagtgaacaa	cgatcgttat	cccattccaac	agggaaatga	aatcgatgag	180
ttcgttacgg	ccagtaccat	gaaaaaatta	cgatcatgcag	acgatccccg	ttatgccgac	240
gctgaatttt	acgaggctga	tttttttatg	aaatcgcaat	atatcggcga	ggactgggct	300
gagaatgtgg	ctattgattc	gtatgattca	gaccgggtct	gtgtaaacgt	gaatatcacg	360
tttggcaaaa	agaccagca	cacagtcatt	gattgcatgt	ttaaagaaga	tggggctctgg	420
aaaatccagt	ctgtcgccgc	tcgggataat	aattga			456

<210> 5528

<211> 258

<212> DNA

<213> Enterobacter cloacae

<400> 5528

agcgcaccgc	gctggtgcat	aagcaaatta	attattttact	cagaacgcat	taatattcat	60
aaagaaccgt	ttgcattgag	taaagcgtgc	attaaatcgc	ttgatcccaa	aagcgagctg	120
cgtataatgc	ccgacaattt	gccgggagga	agcatggtca	agcgtgtacg	acataacgtc	180
ttaccgcgtc	tgaaatcaga	cgctggcctg	ccgtttttct	tcccgttgct	aaacctattc	240
ccagagcccc	tcatttga					258

<210> 5529

<211> 498

<212> DNA

<213> Enterobacter cloacae

<400> 5529

ccacaccaat	tattttctaaa	gcaagtagag	ggacctatga	agcagtagac	caacaaactt	60
acaccagaaa	tgctggcagc	ttttgacgaa	tcaccattta	cagccgaaca	actcgccgga	120
atgaacgacg	aagccagttc	actcatcgaa	aaacaaaacg	cctacaatct	cgctcatccc	180
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ggaaacacac	caggcgaatc	tattgccttg	gttggtagct	cgctggataa	cggcgatgaa	420
attattagct	gcccacaaaa	tgccggaaga	agagtagtcc	gagccgggga	atcgttgcca	480
gaaaactttc	tgaaataa					498

<210> 5530

<211> 219

<212> DNA

<213> Enterobacter cloacae

<400> 5530

gtggtcgggc	gttcaacctt	cgcaggccag	ggcattaagg	gaaggctgcc	tgccggtgcg	60
gcaaaggcgg	aggcgccgag	cataagcccg	gcggttaaga	gactgtaccg	taacatgaat	120
gttccttatc	tgacgggcca	aatacaggca	aaacattctg	ttaacatgcg	ctcaaattgt	180
cgtaagcgga	atgcgccgac	ggagatcaca	ggttggtga			219

<210> 5531

<211> 357

<212> DNA

<213> Enterobacter cloacae

<400> 5531
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 attgatgcga ttcatagtcg ctctaaaatc atgttaactt ttatttcaaa agaagataac 120
 gcgacaatca cgagattaac cgctcctatg gacttcggcc cttagccgtag agcacatgat 180
 aaaagtgaca ggtttcattt ttggggattac gaaagtgata aaaaaaatca tgttctcagt 240
 ttgaggcctg aagctattaa atctctagta gtaatcgctc aaaattttca cccgcaagag 300
 tttgttaact ggacacccaa ctgggtttatc cccagagatt gggatcaata ctcttaa 357

<210> 5532

<211> 1152

<212> DNA

<213> Enterobacter cloacae

<400> 5532
 aataaggcgg tcactatggc atcgggttaac agaggctgca cagttcacgg taagaacggt 60
 ggtctacacg gagataaaac ctctacaggc gcacaatgta ttgccgcccg ccccggtatg 120
 tctgttatgg gcttgtggaa actttacatc ggcgataaga ccactccttg cccgaaatgc 180
 gggaaagtgg gggtaattgt gagcgggtgat cctcgctgct caaatagtgt cgcagtcgcc 240
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 ggcaccgttg aggttaatac cccttccttg actatagcgc ctggagagcc agtgcagcac 360
 gcacaggcag cgaagaagca aaacagcttt actgacacct gcaagccaga agataatccg 420
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 gtacatcaag acaattcgat ttatctctat acctatggtc gctacggcag aacaggccca 540
 gggaatttaa ctggtgacgg aatttttaaac tttctgcaag gtgaagatgc gagggtttac 600
 tatagagcag agctgtaccg gatgggcgca agagcgtttc gaatagatga tgctgatccg 660
 acaaaaacaa ggcagttctt tgaagatctt tggaataagg gtgaaccagc gattcgcaca 720
 tcggaatga aagaacaac ccaacgcaga ggccgcacaa ttgatgagta cgacgtaaca 780
 ggaaacaact gtaccactca ctctgttgaa gggattaagt ttgctgggtc aagggtatcc 840
 gagcacaact acacatctac tacgacgcag attcctatcg aatccgcaga agatttcaca 900
 atccctgtct cattgcagcg ttatcttgag tcaaaaagtt ctgacttctc atcaatgaca 960
 gttgttgaaa tgacaggcga gtttaaaaaa atgtatccca acaaggacaa ttgcccgcga 1020
 taccaagagt caccaaaggg taaagttcag cacatcgtag ccgaagcagc ggctacaggc 1080
 gattcattat cacagtattc cagcgggtact tttggcgggtg tattaggtgg atcttatgac 1140
 gttgacgaat ag 1152

<210> 5533

<211> 462

<212> DNA

<213> Enterobacter cloacae

<400> 5533
 ggcaggggta aactgttggg cgacaaaatg tggacagagc cgaagcgccc tgcgcagcca 60
 gtgcagcagg cacaacggtt gattaagggc ggaaccctca attcggtagc agccatcatg 120
 gtgcgtgacg atatcaagcc gatgatagcg ctggatttca tcgcgcgtct cggctatatc 180
 ttgccgtgcc atgacgtcgt ccacgccgtt ggcagcgatt atgctctgtg cggtgacggc 240
 agcatcgggc aggtaaagca tcaaaagcac ctggcagcgg cgctgcgaac tggaaagcac 300
 agatggaatt tcaagcgtcg tcatcatctg tcgggtatcc agtgtgaatg tttgataaga 360
 atagctaaag gatgggcgct gaaaagcgca ccggcaggcc tttcactcag gattgctggc 420
 gaacatcaca gaatttttga cgtgaggaac agatgcaaat ag 462

<210> 5534

<211> 345

<212> DNA

<213> Enterobacter cloacae

<400> 5534
 cacgaattga taaataattt gactaggcaa gaatgtgatc cagatctaca cttacggcac 60
 aggcgaaaaa cttgcctcag gcatatcgca ttaaataagt atgagaataa aattatgaaa 120
 aaaatcaaaa ccgctacagc agcgatgggtg ctttcgcgac tttcatttgg cgtatttgct 180
 gctgataata cgcaacctgc caatgacgtt aacagcccaa tcgggatcgc taaagcctct 240
 gatgtagaag caggctccaa cattgcccct ggcactcagt ctaccggcca gtcaatgaat 300

gatgcatttg atgtacataa gctggtggcg ggtgagtggc cctga 345

<210> 5535

<211> 291

<212> DNA

<213> Enterobacter cloacae

<400> 5535

aacatattcc	gtggatttct	gtaccgcata	gcgcgtctca	ccatcttccg	ccagcaggac	60
gccctggcga	aacggcgtaa	agttcagcgt	atgggggtgcc	atatgaagct	ggaaagcctc	120
gctttgacgc	gtgatctgct	gcacgacccg	atagcgcacg	acgggttccc	gggtgggttc	180
cggcgcaacc	ccggcgagca	acgcccggag	cgctgatgc	gtaggggtaa	aacgcgtcag	240
gtcgttttgc	ccgaacggca	gcgcttttcc	cagctccagg	gtacaggata	a	291

<210> 5536

<211> 186

<212> DNA

<213> Enterobacter cloacae

<400> 5536

atagtgaata	tttttacgac	aagcggcgct	ttgccgcatg	aaaacaagaa	agagtatgca	60
gaggccaaat	ataattctgg	aattgtgatc	gctcgcgaaa	tttatcggtc	gtttacgccc	120
tgttcgaggg	caaaacgcgc	cgaaatggtg	caaataattgc	accgttggca	ttatctgtcg	180
cagtaa						186

<210> 5537

<211> 192

<212> DNA

<213> Enterobacter cloacae

<400> 5537

gatttatctc	taagattcat	agcctgctat	tattctgaat	ccattttgac	gttaaaaagt	60
gcaattataa	tttctaacgg	gcatttcttt	gtattgtttt	gttataaaca	ggtgccagcc	120
gatgaatatt	cagccatttt	ttactcccc	cttcagacct	caacgcacac	gaacgaatcc	180
atctggcttt	ga					192

<210> 5538

<211> 210

<212> DNA

<213> Enterobacter cloacae

<400> 5538

agaggggchg	ttgcccgccc	ctctcaggtg	cgacttgaac	ctgaatcacc	gaacgtattt	60
caggacagca	tcaagcagtt	gcaatacagc	aacaatgagt	ttgaggacaa	gtatgaccat	120
atccacgacg	ctcatacgcg	tctccttttg	gttaaaagga	gcacgatgct	ggcgtacctt	180
tccgccgcct	gtggccagca	cctggattga				210

<210> 5539

<211> 459

<212> DNA

<213> Enterobacter cloacae

<400> 5539

cgaggggaatg	ctatgtcgcg	tctgttaatt	gagcctgtta	cgctgatga	accgggctat	60
atcgccctga	aggcggagag	tatcgcggtg	aatttcaata	tgctgcgcag	gctggaagag	120
aactggcagc	ggggtgaaaa	ccgctttaac	gcgccgggtg	aaaagctgtt	gggggcgttt	180
cttaacggca	ggctggtggg	cgtgtgcggc	ctcaaccgcg	atccgttcag	ccagcagccg	240
cgcgcgggac	gtattcgta	tctctacgtc	agcgaaaagt	gccgtgggca	gggcattggc	300
aaacaacttt	tgaccgtggt	gatggcggat	gccagcatct	ggtttgattt	tcttaatacc	360
catgcgcggg	aaaccgcgta	cggattttac	catcgggcgg	gcttcaggct	ggtgtcagac	420
gaaccccggg	tgacgcaccg	ccttttttgc	gcagtgttaa			459

<210> 5540
 <211> 288
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5540
 ctgcccagca agatgcccag cacaagggcc agcaggatct gccaggccag gctgactttc 60
 aaatttttca tagaaactga cttcctcaat gaaatctccg caccatcaaa actgcatgaa 120
 tatggagaca tactgaaagg gtatgaattg tgttgcggtg gtttatggga ttttttaacg 180
 cgccgtatga gtatcatttg cacggcatgc tgcgcaagcc ttaaagaaca aggcatttca 240
 ctgcaaaaag tgtcattgtc ggtaatttat agcaattcgc ataaataa 288

<210> 5541
 <211> 225
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5541
 cgccccgctg ccatagctcc ctgccgcgac acccgttccg cccattgcgt cgctacgcgc 60
 ttccgtccag gtattggctg ctcccgccctg atttgccata aaaaaggaga cagcgatgct 120
 aaccatcgaa aatttaaaat gttttttcac agtgtgctcg taaatagttt gttattagtt 180
 aaccctgtct gttatcacc aaacagggaac gaactattgc tgtga 225

<210> 5542
 <211> 258
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5542
 ttggaatgct taaacgcctg gctctttgtg caaccgacga catgcagtgc catcctcacg 60
 gaacagatgg caacgctctg gcggcacaacc gatagcgaat gtggcaccct cttctaccaa 120
 caccacgtca ttctggcggt agaccagggt ctgacggatg gcgggggatct ggatatgaat 180
 ctgtgtttcg tgaccaagct gttcgcgcgc ctgaacttca ccttccagcg tcacatccgc 240
 aatgtggctt ggcagtag 258

<210> 5543
 <211> 210
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5543
 cttgaggaat tatactcccc cgcagagaaa atgacgaatc aaccaggaca gatgtctcca 60
 cagaggggta accttatgtc gcatcagcaa attattcaga cacttattga atggattgat 120
 gaacatatcg accagccggt gaacattgat gtggtcgcta aaaagtcggg ctattcgaaa 180
 ggtatttaca gagaatgttc cgcaccgtaa 210

<210> 5544
 <211> 240
 <212> DNA
 <213> *Enterobacter cloacae*

<400> 5544
 agcggcgctg gtgcagaagc ccgcgcaaca acggtactat taagcgagaa caataagcag 60
 gcggcgctga gcgccagtgt gatcttgccg atattttccc ctgaatattc agttttgtat 120
 ctttttattt tgagcggatg gtcaaaaaaac tatccgacca taacccagc gggaggggaa 180
 ggaaaggagt ttttacttat taagcggaat aaaaagaaga cgatcacaaa gtgtggatga 240

<210> 5545
 <211> 429
 <212> DNA

<213> Enterobacter cloacae

<400> 5545

ggggtgaaaa	ctctcacttt	atcatgtttct	gctaaaaaca	ccgagatccg	ccaggctgtg	60
ctatacctga	cgcacgcgaa	atcaggagat	cgcaaaatga	aaagacctga	ctgtattcgg	120
cactggcggg	acgtggaagg	cgctgatgac	gcaacgtatc	ctgacagcaa	cgaacgtttt	180
tctattggcg	cgccgctggc	ccgcaaactg	ggtctcggcc	gcattggtat	tcaccatgaa	240
cggtcgccgc	ccggacgcgc	cacatcttat	ccgcatgcgg	aaagcgacga	agaggagttt	300
gtttacgttc	tggagggtta	ccctgaggcc	tggatcaatg	ggtattttat	ggaagctcga	360
acccggagac	agcgtgggat	ttccagccgg	gacgggcgtg	tgtcacacct	ttatcaacaa	420
taccgatga						429

<210> 5546

<211> 255

<212> DNA

<213> Enterobacter cloacae

<400> 5546

agggaaattg	ttatgaagaa	agtactgtat	ggcatttttg	ccatatctgc	gcttgccggc	60
acgtctgtct	atgcagctcc	gggccagggtc	ggggaagcag	caggggcggc	agcgacgtct	120
gcgtctgcgg	ggagttctac	cgcagccagc	accagcgccg	taagttcagc	cgtgggtgtc	180
gcgtggcgg	caaccgggtg	cggtgatggc	tccaataccg	gaaccacgac	cactacgacg	240
accagaccc	agtaa					255

<210> 5547

<211> 486

<212> DNA

<213> Enterobacter cloacae

<400> 5547

aaagacctga	ctgtattcgg	cactggcggg	acgtggaagg	cgctgatgac	gcaacgtatc	60
ctgacagcaa	cgaacgtttt	tctattggcg	cgccgctggc	ccgcaaactg	ggtctcggcc	120
gcattggtat	tcaccatgaa	cggtcgccgc	ccggacgcgc	cacatcttat	ccgcatgcgg	180
aaagcgacga	agaggagttt	gtttacgttc	tggagggtta	ccctgaggcc	tggatcaatg	240
ggtattttat	ggaagctcga	acccggagac	agcgtgggat	ttccagccgg	gacgggcgtg	300
tgtcacacct	ttatcaacaa	taccgatgaa	gaggtgcgct	tactggtggt	gggtgaggcc	360
aataaaaaac	ataaccgtat	ctactatccg	ctcaatccgg	tgtatgccgc	gacgcgcgaa	420
gaccgctggg	tgcaccatcc	gcctcagttt	tttgggcccgc	acgatggaaa	acctgggcga	480
aaataa						486

<210> 5548

<211> 1332

<212> DNA

<213> Enterobacter cloacae

<400> 5548

caaaactat	acgagcacac	tgtgaaaaaa	catttttaaat	tttcgatggt	tagcatcgct	60
gtctccttt	ttatggcaaa	tcaggcggga	gcagccaata	cctggacgga	agcgcgtagc	120
gacgcaatgg	gcggaacggg	tgtcgcggca	gggagctatg	gcagcggggc	gttaataaac	180
cccgcttg	tggcaaaatc	taagcccag	gatgatgtga	cggttatttt	gccgtccgtt	240
ggcgtgcagg	tgaccgatga	agacaatctt	caggacgaga	ttgataccat	taacgacaaa	300
atcaatcatt	acaaggatgt	ggttgatagt	ctgaccccca	ttgaagttat	caccaatcca	360
ttaggttcga	tcaatcagtt	ccagggcgca	gcgaaagatc	tcgctgatga	actggactac	420
ctgaaaggca	agaccgcaca	cgccaccgca	ggggcgggga	ttgccgtcag	tatccctaac	480
gatgttcttt	ccgtggcctt	tatggcaaaa	ggctatgcc	atggccgggt	cagctcttca	540
atcgatcagc	aggacattga	ttatctgcgc	ggtatacaac	gaagcgatgc	ggtggctgcc	600
ggtgtggcgc	tggatgccgc	gctaaacggt	accgatcaga	tcaccaaaaa	ccttaactct	660
acggcgtctg	gtcgggcggc	gattgtgtcc	gactacggta	ttgcggtggc	ccgtcagttc	720
gatcttggcg	cggttccggg	ttccggttggc	gtcacgccga	agttgcaaaa	aacctggctc	780
tataactaca	ccacctcaat	ctacgattac	gacagtaata	agtggaaacga	cagccgctac	840
cgtaccgacg	acactggctt	caacgtcgtat	gccggtattg	cggctgattt	cggtgaaaaac	900

tggacggtcg	gtgtgagcgg	acaaaacctg	atgtcgcgcg	atatcgatac	caaagatatac	960
cgcatttcgca	acggacgcac	gggagaggta	gtgagttata	aagacaccta	tcagatccgt	1020
ccgctgggtca	ctgtcggggc	cgcctggcat	aacgatctgg	tcacgcttac	cgagacggc	1080
gatctgaccg	aaaccaagg	ctttaaaagc	gaagacacct	cccagtacgt	tggcgtcgg	1140
gccgaagtca	cgccgctgag	ctggctggca	gtacgcgccg	gttatcgtgc	ggatatgaaa	1200
gggaacgaca	gcaacgtctt	taccggcggg	gtcgggtttc	cgccgttcaa	cgccgtccac	1260
gttgacctga	tggggcttta	tggcgaagac	gagacctggg	gcgcaggggc	acagttgagc	1320
atgacgttct	aa					1332

<210> 5549

<211> 192

<212> DNA

<213> Enterobacter cloacae

<400> 5549

cgtttacagc	agtatgtcta	tggattatgc	ttgtgtggaa	caataaatgt	acccgcagaa	60
ataattcatc	gcattgaatt	aattgccttt	tttggatttt	atattctttg	ttttacactc	120
agcatgctct	ttgatttcgt	ggtcttattc	ttttattcag	atatgagtta	ttgcggttgc	180
tctctcgatt	aa					192

<210> 5550

<211> 399

<212> DNA

<213> Enterobacter cloacae

<400> 5550

ctatttcagtt	catcaaggat	gaagaatgaa	aaaaagtatg	ttgtcatacc	ctacggtgaa	60
tatttttcgca	tgcgttttagc	catgcttgag	tacgatgacg	atgatgaaaa	cgactgggaa	120
gacatccctt	acgaatcaga	catctacgat	aacgtagggt	taccgggtga	agtgtgcgac	180
atcatgcata	acgagaacgt	cagcctacag	gccgcctggc	gcattttacg	cggcattgtcc	240
cagcaggagg	tggcggagaa	gcttggcatc	agccagtcgg	ccgtgtcaca	gctggaagcg	300
ctggactccc	gaccgcaaaa	gcgcacccgc	gaaaagctgg	cggcacttta	cggtgtgaaa	360
caggagcaga	tcagcctcta	tttaccgaaa	gagggttaa			399

<210> 5551

<211> 483

<212> DNA

<213> Enterobacter cloacae

<400> 5551

gaggacaaca	tcgtgacgct	cgatcctgaa	acagacttaa	aactggagcg	cgtgggtggac	60
gcaccgcgcg	atctgctgtg	gctctgctgg	actacgccag	agcacatcaa	aaacttcttc	120
attcctgctc	cccataaggt	gaccgaatgc	gacctcgacc	tgcgcgtggg	cgagcggttc	180
aacaccgtgt	ttgaggtgga	cggccagcgg	atggataacc	ggggcggtatt	ccttgaaatc	240
gatccgggga	aaaagctggg	ctttaccgac	ggctataccg	aaggctggaa	gccggccgag	300
aagccgttta	tgacggcaat	tttgcctcct	gaagacgccg	gggagggcaa	aaccgcgtat	360
acggcgatag	cgcgccaccc	cacgaaggaa	atccgcgagc	agcatgaaca	gatgggattt	420
cacgaagggt	gggggattgt	gctggatcag	ctggtggggg	atgtgaaagg	gcttaacgct	480
tag						483

<210> 5552

<211> 231

<212> DNA

<213> Enterobacter cloacae

<400> 5552

attgagaaga	cacagagtgc	aagcgctact	gcgccagacg	ggataacgat	atccttcctg	60
aacatttgct	ttcctgattg	gttgggcgcg	attaatttct	gggggttatt	aaagcacaaa	120
aagcgcccg	aggcgctttt	tggatatcag	gaatttcgct	taggcagcgc	cggaaccag	180
cacttcggtg	gcgataataa	cgataatcag	gcccaaccag	accggcactg	a	231

<210> 5553
 <211> 480
 <212> DNA
 <213> Enterobacter cloacae

<400> 5553
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 ctgtccgacg atctcaatat gtacgccagc tggacatata gcctgcgctt tatcaaaaaa 120
 catctgctga tgtttttgct ggcgtttggc tggctgttga tccagactca ggtggccgctc 180
 gcgtcccatc aatgttcaat ggatttgccg gccgaggtgg ccaccatcca gcatatggag 240
 atgatggcgc aaccggggcc gcattatgct gccggtgctt caccgctgtg tgaaaaacat 300
 tgtgtgccgg atcaggtaca aaaagatcct gccagccgc atctggtggc gctgcctgcc 360
 gccatgaccc tgaccttaac tccgccagag tgctcgtctg caagccattc tgcgtggtcc 420
 gttacccctc ctgctgtggg gccgccggca acgatccgct attgccggtt tcgggagtaa 480

<210> 5554
 <211> 1242
 <212> DNA
 <213> Enterobacter cloacae

<400> 5554
 atgagcatgc ttcctacgcc agaatacagc cgcaatatgc ggctgattgg ccatagcgac 60
 cagggcggtc gtccggatgg cgtgcagctg atggtgcacc gcggctttgc gtatatcggc 120
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 cgcaagcccc aggtggcggg gcgctgggtg ctgccgggga tgaaccagtc cgcaggcgaa 600
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 gaaacgggga cgctggtgcc cgcggcgccg gagagatga tggatacgcg gccgaatcgc 1140
 ccgcaggtga tccagctcgt cgacgtgttt gtggatgcgc aggggattat ttacagcacg 1200
 gattataacg atgggttgtc ggtgattgag tatctggggt ga 1242

<210> 5555
 <211> 879
 <212> DNA
 <213> Enterobacter cloacae

<400> 5555
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 aattccaccg tcgttaaggg agccgctatg aacatgaaac cgatcgggtg aatgctgttg 120
 ttgatggtat ccaccttcgc cttcgcccag caatctttct ccacacctga gcaggcggcc 180
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 ctgctgactg ggaagataaa ccatcgatcc gaaatcagcg gcgatattgc ccatctgtca 360
 gttggcgata acggctggca actccccata ccggtagtga agaaaaaaga gggctggcaa 420
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 atgggctatc acggctatcg gttccgcatt ctgtcggata aaaatggctt tgcgatgggt 720

gcctggcccc	taagctatgg	tcagacgggg	gtaatgagct	ttgtcgttaa	ccaggaagac	780
aaggttttatc	aggcaaattct	cggcaacgat	tcggcgcaga	aagcgcaggc	gctcgctgca	840
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<210> 5556

<211> 201

<212> DNA

<213> Enterobacter cloacae

<400> 5556

cgggacgacc	cacaacacat	agggcgaacg	ggctgcggca	atttgacgct	gagtttcctg	60
gtggataatg	gggtggagca	gggcattaa	ccaggctttt	tccgctggat	cggaaaatat	120
gtactcacgc	agctgccgac	gattcagggt	gccgtcagcc	tgtatcacac	ggcgaccaa	180
atgcgcttcg	atggcgttta	a				201

<210> 5557

<211> 195

<212> DNA

<213> Enterobacter cloacae

<400> 5557

tgccgaaaaa	tttctcccg	caaatgcgcc	cgatcatatcc	cggctaacgg	gcaacctgta	60
ggcctgctaa	gcgaagcgcc	agcaggcttc	aaagggttact	gctgggttttc	gctccagtca	120
tcgctatccg	agagatcgcc	ttcgctcgga	atgcgtttct	cttccgccc	ccattcgccc	180
aggtctataa	gctga					195

<210> 5558

<211> 312

<212> DNA

<213> Enterobacter cloacae

<400> 5558

gcaggcgacg	gaaattcaga	aggccgctct	tgcgagcgac	cagcagcgcg	ttgccggagg	60
ggggacgaca	gacttacgga	actgcttccg	ggcccgggtga	cgggggtgcta	catcatgctt	120
aacgattcag	caaatttttt	aatggttgctt	ttttgtaaac	agattaacac	tgtgcagaaa	180
tcctgctatg	ctgcccgacg	cggtatcggy	catttaccct	acaaactgct	gtctcacagg	240
agcgtgaaga	gaacgcccgc	cgcatatgac	aatgagagcg	aggagaaccg	tcgtgctaga	300
agaataccgt	aa					312

<210> 5559

<211> 189

<212> DNA

<213> Enterobacter cloacae

<400> 5559

caacctcaac	ttaatacggc	gttttcaaat	aagatgactg	tcatatatca	agttgcgtgc	60
caacttttta	aattattgaa	aataatggat	ttatatatttg	atgctcccaa	atgggtagtc	120
attttgacta	tcttaaaaaat	tgtcaatatg	acactatgca	ttgtcaaaat	gacagtgagg	180
cagagatga						189

<210> 5560

<211> 282

<212> DNA

<213> Enterobacter cloacae

<400> 5560

cgtcagccc	gcaatgtatc	cgttacttac	ccaggcaagc	gcggaagggtg	tggtattgaa	60
agcgcgagcc	atcgccggaa	aggcgacgct	ggcaataaac	atgtttatca	aatcaaggaa	120
aaagccgagc	agaaagacga	cggcgatttt	gctgcgatac	gtcatggaag	ttcctccggt	180
gagggtggcgt	atcgatatcg	ccgcacggt	acggataaac	gcgacaaagc	acgatatact	240
gtcaacatta	ttttgacagt	taaccaggca	agcgatgctt	aa		282

<210> 5561
 <211> 516
 <212> DNA
 <213> Enterobacter cloacae

<400> 5561
 gcaggtcggc gaacagatca gaaaactggg actggactga tgaccaccgc cgtacttcag 60
 atgcggcagg ggggtgctcct gaccacgtca tgccctgctcg ccttcgtgct gttgtttctg 120
 gtgatcgccc ttggcgtcag catcggtgag ttgtctatcc cgctcaataa cgtgttctac 180
 gccatcagca ataagctggg gctgactgac gttccgctca accgcatcta cgagagcgctc 240
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 atctgcgggg ccgtattgca gagccttttg aagaatgcac tggcgggaacc ttacgtgctc 360
 ggctgtgctcg cgggagcgct aaccggggcg gtgtcagtcg tcgtattggg tctcggcacc 420
 gggcgagtg tcgctttctg cgggcgcgct tgccggagcc ttcgccgcct ttgcctttgt 480
 cgccttctctg accaacggcg cgcgcggcg caatga 516

<210> 5562
 <211> 363
 <212> DNA
 <213> Enterobacter cloacae

<400> 5562
 acgctcgtga atgatccagt ccgcttccgc cagttgttcc agcgagtcaa ccggatgggt 60
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 gtagcgcgaa tctgcaagcg tgccgagccg gatagcgaca tcgaagcgct cggcgataag 180
 atcggcatgc aaagaggacg agacatgccg cagcggaagg tccgggtgca actggctaaa 240
 ttcagccagc aaaggcacca ccacctgcga gccatattcg ggctgtggtg tgatccgcag 300
 ttctcccgtc agcccggcgt ggttggcgcg aacgtcatcc tgcaatcgct ctgcatcccc 360
 taa 363

<210> 5563
 <211> 417
 <212> DNA
 <213> Enterobacter cloacae

<400> 5563
 caacacgcag ttacttgccg aactgcaaca ggagcaacca tgacccattt cgaacaagag 60
 atcctcgaca ttcacgtcgc ccttgaaaaac tggttagggt caggcgaagg caatcgggac 120
 gccctgctcg cccgtttccg tccggatttt ctgatggttc caccgagtgg caaccggtta 180
 gatcatcacg cgcttgccca atttttatat gcgcagcggg gaaccgcgacc cgggctcagg 240
 atcggatttg acgcgttaac aacgcttcag acatgggaca acggcgcggt gctccattac 300
 cgggagacgc aaaccgggcc aggccagccc gtcaacgtgc gctggtcaac cgcggtgctt 360
 aatcaggaag gggataacat cacctggcgt ttgctgcacg aaacggcgca gccgtaa 417

<210> 5564
 <211> 240
 <212> DNA
 <213> Enterobacter cloacae

<400> 5564
 gtaaattgtt gcctggtcga gtatagggaa tacgtgaaag gaggggaagcg taaaatgctg 60
 gattttacgt gttgcgtcat gttttttaac tattggttaa cgaaagcgcc gggtagcgct 120
 acgcttaccg ggctgcatt gcatttcccc ctctccctgt gggagagggt tggggtgagg 180
 gcatcagccc gcaccgaacg ttgcaactaa cctgctgctt cttatcgtgc tggcgggttaa 240

<210> 5565
 <211> 252
 <212> DNA
 <213> Enterobacter cloacae

<400> 5565
 gccagaggg cggtcagtag ttgggtcaaa agttccattc agtggtcctg gaaatcgggt 60
 aacgtcacgc ctgtaattcg ggaaatacag cacggcgaca ttgttatgat ttcattatgg 120
 tcgctcgcg acacattgat gtgtggccaa cactgttccc tgtaattgg ctggttagca 180
 agcactaact tacaaaataa cgaagtgaat ccaattgtaa caaagcccga cgttctgcgt 240
 cacagaattt ga 252

<210> 5566

<211> 249

<212> DNA

<213> Enterobacter cloacae

<400> 5566
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 tatacctttt ttaattccgc agtttttagcc agtagctttt cttattttatt ccgactcagc 120
 gtcagcgtaa tttttttttt cctgactgaa ttttggcggt ataaaatcgt cattcagtat 180
 aatcgtcacc acccggcagc acattgtctc aatgctcaat tatccaacgg gagtaacacg 240
 ctattttga 249

<210> 5567

<211> 231

<212> DNA

<213> Enterobacter cloacae

<400> 5567
 aactcccgtt tacttactat gcttaagtag gcggagcacc cctcagatgt tctccgctta 60
 gttctggaac acggcttacg ccgtaacaca atggaagggt tctataatga aataccgcat 120
 caccctggct ctggcccttt tttctttaag cacagcttcc ttcgctatgt ctctttgtca 180
 ggagaaagaa caggatatcc aacgcgaat cagttatgcc gaaaagcata a 231

<210> 5568

<211> 483

<212> DNA

<213> Enterobacter cloacae

<400> 5568
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 atccacagcg aatacagcta tgaaccctgt gggccacgcc cctttcccgct cggcattgtc 180
 ggctgatgc tgcctgctc ggtagcgtg ctgctgcgcc atccggatac cgtggagtgg 240
 ccgccagccc gaacgctgca acgtctgctg gtaatggtga ttgtcctgct gatgtacgcg 300
 tggggctttg aatggctcgg cttcccgatt gccaccgcc tgctgacgat ggtgattggc 360
 atactattta acgcctcgct gcctgcggcg gggatctccg gggctgtact gggcatttta 420
 ctctggtacg ccttcgaccg cctgctggac gtgaccctgc cgcttggcgc atggtttaac 480
 taa 483

<210> 5569

<211> 207

<212> DNA

<213> Enterobacter cloacae

<400> 5569
 aaacagtgtg gcatcagagc tgtgctatcg ggaatggcgg ccagtctcat acatatcccg 60
 caatgcctgt tattgacaca tagcggagcg atctttcaca cgtttctata taacctggtt 120
 agcaaaacta tctccgctgc acttcttctc agcaagcaat tcctgaatac gctacgcaac 180
 ttaaacaat atttcagacc aagatag 207

<210> 5570

<211> 444

<212> DNA

<213> Enterobacter cloacae

<400> 5570
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 gcagccagca ctgactggcc atcagcactt catggaatcg cctcaggtga cacacactgg 120
 attgagcaag ccccaacgct ggctgccacg gctgacgcca ggcaaggcga actgctggag 180
 gatgcttttg ccgcagcgct cacaacaaac accagcgcca cactgaaagc gctccagacc 240
 attgacgcgg gaaagtggcc gcacatggtt ggcagcgata tcgtctgcac gccgcctcta 300
 gagaaatccc ccgccgaagt cgacgcgttc tatcagcgca cccgccgggc gctgctggat 360
 acggttgagg gtgctcagtg cctctggatc ctggaagcaa caatggaaga gctaaacgct 420
 gagaaagccc gtcagggtaa gtaa 444

<210> 5571
 <211> 195
 <212> DNA
 <213> Enterobacter cloacae

<400> 5571
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 tggccggacg gtgacggcga cgggtgaatta cagctggtaa gcatggtgcg gtctgatccc 120
 ctacccctaa ccctctcccc aaaggggaga ggggacgatt acgccctcgc ccctttgggg 180
 agagggcccg ggtga 195

<210> 5572
 <211> 210
 <212> DNA
 <213> Enterobacter cloacae

<400> 5572
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 cgtcacgacc cgatgatccc gccgtccgct ttggtaatca ccaccgttga cgatcgcgga 120
 cgcccgttcg ggctggcgtc tggccagttg gaaacagcgc gcggattggc cgggtcggta 180
 atatcatccc cgccctcccc cggtatgctga 210

<210> 5573
 <211> 195
 <212> DNA
 <213> Enterobacter cloacae

<400> 5573
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 cttcacctgc aacttcccga ttctgcggat ctctttgaac tggctggcac ctgtgcggcg 120
 tacgtgagcg tactggtgga aatggacgat gcggtgacat tttctacgct ctgtaagcaa 180
 ctgctggggt gttag 195

<210> 5574
 <211> 453
 <212> DNA
 <213> Enterobacter cloacae

<400> 5574
 agctgctcta tgaaaaaatt acctggcgct acgtggacgg taacatcatg cattcagata 60
 gctggaatga ccgtaagacg gcataaggag aacgttatgg gatggaagta tgagcaatca 120
 actggcaaga tgtataaaga cggcaaatta attgagacag gatattccgg tgcccttacc 180
 aataaaaaata atccggaccg tcagcatgtg aagggtctgg gtccattgcc gcgcggaaca 240
 tataaaattg cgggacattc gaattctaaa ggaccatta ccattatcct tgagcaaaact 300
 tcgggagaga gttttggctg ttccagagttc cgcattcatg gtgaccataa gtacgggtcca 360
 gccggatttg cttcggaggg gtgcattatt ctctcactgt caacgcgacg taaaatcctt 420
 cgtgacggcg gtgagcttga ggtagtgcga tga 453

<210> 5575
 <211> 204

<212> DNA

<213> *Enterobacter cloacae*

<400> 5575

cctttaatgc	aaattgcctt	acatgcta	attatcaggg	atgaaataca	gtgttcagac	60
ttatcgttca	tgcggcagtc	agggaggaga	tcctctcatt	gcctgcggat	gtttatcaag	120
aagacgcaaa	aaacgccctc	tgctgaactc	cgtctggcac	tgaaacgaca	acaggagatg	180
ttggatgagc	aaaaagatta	ttga				204

<210> 5576

<211> 234

<212> DNA

<213> *Enterobacter cloacae*

<400> 5576

acatttttat	tgaacgtcct	tggttgctat	cgccataaaa	tcaccggtaa	atcgccggtt	60
atgatattgc	aaattattac	catttgcatt	agcgttggtta	acaaatttcg	ttggggaaca	120
agcggtaatg	aagaggggat	ggagtgggtt	gctgttgggg	atcggcgcgc	tgcccgccgt	180
ggcggcaacg	tgcgagcaga	cgtcccggca	ggcgatatt	cagggaagt	ttga	234

<210> 5577

<211> 258

<212> DNA

<213> *Enterobacter cloacae*

<400> 5577

aacggaatgc	gccgggaact	gttatttttc	acccatcacc	tcaagatcgt	tatacacctg	60
atagcgggtt	acgcccagg	cctgcgccgc	gtgctggacg	ccaccccgca	ttttgaaaat	120
gccttttagcg	tgcatttcag	cgactatttt	aagccgctgc	gctttctgta	cctttttgcc	180
cggaaccgaa	tgtttatcga	tgatttcctg	gatagactgc	tcaatgatgc	cgcccaggtt	240
catatcctgc	gggtctga					258

<210> 5578

<211> 372

<212> DNA

<213> *Enterobacter cloacae*

<400> 5578

tatttaagga	ttaaaatgaa	atttttgact	ttaattgtgg	ctataacgct	gctgacagca	60
tgccagctgg	tacggccttt	tggcgaggct	accacttata	aaccgtttac	cgtttcagcc	120
catcccggac	tggaggagcg	gtatcactgt	atgcgaagcg	cgcttgatgc	tgaaggctac	180
gaggtggaac	acatcttccc	ggaacgcgat	acgcctaact	tttttgatat	ctccagaggg	240
agcaggctga	ttgccaggt	cgatatgtct	cataccaccg	gggcaaactt	tctggatatt	300
acgcttatct	ccggttcgaa	acagactaat	gaagatcttg	cccgtgtcat	agcccattgt	360
gtcagcagat	ga					372

<210> 5579

<211> 924

<212> DNA

<213> *Enterobacter cloacae*

<400> 5579

acgggtacca	gttcttgctt	atactggtac	tggcactacc	atgcaggaga	tgttatggcg	60
ctgatgtctg	aacctgtcac	ctctctccag	gatgacaccc	gcaagcagct	gggggcgttt	120
ttgcgtgccc	ggcgcgaaag	cctcgatccg	cagcgtctcg	gcttaccgcg	cagcgccgc	180
cgccgcacgc	cgggcctgcg	ccgggaggag	gtggcgatgc	tcgcggatgt	cggcgtgacc	240
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atcgcaaaag	cgctgcaatg	caccccagcc	gaagcccggc	atctttttgt	gctcgccggt	360
ttgccgcccg	gcgaagcccc	gcaggcgggt	tgctgcgagg	ggatcagcga	aggcacgcgt	420
cgctgctgg	ataccctgat	gccgaaacct	gccagtattc	agaaaccgaa	tttcgatatc	480
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gaagatcgca	actgtatttta	cctgttcctc	acccatccgg	cgtggcgcg	gcggctcggc	600
aaacgtgacg	acgtgctgcc	gattttcgtc	tcctacttcc	gcgcggccat	ggctgagcac	660
cgtggcgacc	cgctctggga	agcgaagctg	gcgcgttttt	ttgcagtgtc	cgaagagttc	720
aaaaccctgt	ggcaccagcg	taacgacgtg	cgcggcggtg	agaaccagct	caagctgttc	780
acccatcccc	agctggggga	ttttcatctc	cagcagatgt	actgggtactc	cgccccgcga	840
aacggatcgc	ggctgctggg	ctattttacc	gtggatgagg	caggggagag	ggcgtatggc	900
tggctggcgg	agcaggggat	ataa				924

<210> 5580

<211> 228

<212> DNA

<213> Enterobacter cloacae

<400> 5580

cggcgtaatc	atcctatcta	taatgagtgc	ttactcactc	ataatgccaa	agcggtcgta	60
ccgggacata	acgggcgttt	tgtgctggcg	aaacatacct	ggaacgatcc	actgatccag	120
ctggcgaaag	ccagcaagga	taaaaactac	cggctgctga	cgccggagct	gggcgagccc	180
gtgcgggtga	gtgataccac	gcaacaattt	cgcgagtggg	gggaataa		228

<210> 5581

<211> 192

<212> DNA

<213> Enterobacter cloacae

<400> 5581

aaacaggcgc	ttacgccagt	ttcaagccag	cctgattttc	ttcatgaaac	acccatcgcg	60
aaagttagcg	taacgcacat	ttttcacagc	acaattgact	gttataacag	tatttttctt	120
acgctgtggc	aattttatta	ttcctctacc	atgctcatat	cacctcactc	tcactcgtgg	180
ggctttttgt	ag					192

<210> 5582

<211> 186

<212> DNA

<213> Enterobacter cloacae

<400> 5582

agtgtcgctc	gcgtgctacc	gcgacaaaat	agcgcagata	acgaagtcc	atatcaaaaa	60
cgtctcaaac	cagcatggat	tctatatattg	aactctctgc	tgaatcgggt	caacatttat	120
ttaaccttta	taaataaagt	tgaagaggac	gggcatgatg	atgcattcat	ctgcatgcga	180
ctgtga						186

<210> 5583

<211> 228

<212> DNA

<213> Enterobacter cloacae

<400> 5583

ttgacagcca	acgcatttgc	ggtcacgttc	aagaacatgc	acatttgtgat	tcattgctgtg	60
gagcccagtc	gggcacaggt	cggcgaggtt	accacaatgc	agacagcggt	cggcatggaa	120
aaaaacatcc	cgttcggcag	tttgtccttc	cggatttgcg	caccaggcac	aacgcattctg	180
gcagccttta	aaaaagatga	tgctgcggat	acccggcccc	tcattgtaa		228

<210> 5584

<211> 219

<212> DNA

<213> Enterobacter cloacae

<400> 5584

acgccgatct	ctttaccgtc	gacgttgccg	ctaaaaggga	aatcttctctg	tacttgctct	60
gcgtcacata	cgcctatcca	gctcatcacg	atcctccagg	cttttgtttc	atatatgaaa	120
ctctgtttct	tatttaatac	ggtcaatata	aaagcgatga	atgtttcgtc	aagcgacaat	180

219

<213> *Enterobacter cloacae*

gcggaaaaacg	atggttcatt	atctggtatc	acotccacgg	ccgcctctgc	tgaaacggac	60
cacaagccaa	agctaaaagt	tacttgctta	acccggctgg	aagtggcgac	acgatgtgtt	120
catcgagcgc	ttattttata	tgagccgcgc	gccgcgtttt	ataccgagaa	ggtcgctaaa	180
aagcaaaaaca	aaaatgcgca	ggttgccagc	gtcgtcagga	aaaattttcca	gcagcgtttt	240
caacqcaatg	aqaaqtga					258

<213> Enterobacter cloacae

aagagttgtc	tgcttgtgag	aatgttcggg	aaacggggcat	tatccaaagt	taaggcttct	60
atgcaagcat	gggaaagatc	cggtttacag	cagattgacg	ctgtgctgca	atctgcgtcc	120
ctgattaagc	gaatcgatga	ccatgcaagc	ctctcaattt	tcagcccagg	tgctggactg	180
qtacgacaaa	tacgggcgta	a				201

<213> Enterobacter cloacae

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gctgttcata gcgtaagaa ggtccgcata tgcgggcctt tttttatgct ttttcaatat 60
cctgcaatac ctgattttgt gatctgtttg gcaaagccgg tgctttttgt ttacccttta 120
ctgacctgcc tgtctccatg ggggatggat tttgtgtttt ggtttaacaa aaggaagaat 180
aatggaaca acttgatgtt gtag                                     204
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<213> Enterobacter cloacae

ggagaccgtg	gcatgagcga	cacgctgaac	tacaaccctg	cgctgccgga	aagccgccag	60
tttaccctac	cggcagaggg	cggtaatggc	gccattcata	agccgggtga	ttacaccaac	120
ctgatctggc	aaaccctcag	ccgcgagccg	gaaagctggg	aagtgaagct	gattgcgacg	180
ctggaagatc	tcttcgagca	ggcgcttgaa	accttgccgg	agctggtaag	cgggctgaac	240
gcggtgcgca	tgcacgacca	gcagggcgag	ccgtggagcg	acgccagctt	cggggcattc	300
ttacaggtta	acgcctactg	a				321

<213> Enterobacter cloacae

atacaggaat	gcgaaatgac	caacaccggt	tttattattg	gtgcgtaccc	ctgcgcaccc	60
tcgtttcacc	agaaagggga	gcaggaagaa	tacaccttct	ggcgggaact	ttccgacacg	120
ccaaatattc	gcgggctgga	acaaccttgc	cttgaaaatc	tccatccgtt	tggtgatgaa	180
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aaagcgtgca	ttgaatat	tcgcctctg	catcaaaaga	ttgatgccgt	taacaccgcg	360

tttccccgga	aagtggtcgc	tctggaaatg	caggccgcac	cgcaggcggg	taatgaatct	420
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atgtccattg	aacatgtaaa	agcgtctgtt	actgcggcga	gcgccgcaac	attgaaattc	840
tccggtatta	aattactgga	aataaatgct	aatgctgacg	tcagccatcg	catcgctatt	900
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<210> 5590

<211> 333

<212> DNA

<213> Enterobacter cloacae

<400> 5590

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gggaaaatga	gcccggagcg	ttccctgaat	atggaacagc	tgtgcaggga	tcaggcggct	180
caccgctata	attctgaagc	acagaaaatt	catataaacg	gcttcgagcg	ctttcagggc	240
agctatgaac	tgaaggcta	tacggcgcg	aaagagggt	ttgtctgttc	ttttgatgca	300
gacggccagt	ttttacatct	ctcaatgcgt	taa			333

<210> 5591

<211> 225

<212> DNA

<213> Enterobacter cloacae

<400> 5591

cgcaaaacaac	gcatcgcccc	gatgccagcc	ataccaggcc	agaccaagcg	caataagaat	60
agccccattc	atcataacat	cagactgata	atgaagcata	tcggcccgt	cagcctggct	120
ttgtgttttg	cgtacaaccc	agcgtctgga	agttacaaga	acaagtgtgc	ttataagtgc	180
aactaccgtt	acgaccacgc	caacgccccg	atcgttcatc	ggtga		225

<210> 5592

<211> 477

<212> DNA

<213> Enterobacter cloacae

<400> 5592

gcgccagtgc	ggttcgcctc	tggcattatg	aaaaccgggg	atattgcccg	cccagtcgac	60
attcagttta	agtctgtcgg	ggcaatagat	gacgttctgc	aacaccagat	cgtaaacgga	120
ggcgtaggag	tgtttgtctt	cagcgcggat	gtagaacagg	tctccgcgcg	tgatgcggta	180
gggacggtcg	ttgaggacgt	gcaggccatt	gccccgccac	accagcacca	gctcgcaaaa	240
ctcgtgggtg	tgctcggcga	agacgttttg	cgggtagcgg	tcggccaccg	cgacggcctg	300
actcgcggag	gcaaaaaaat	catctttgcg	aagaatgagc	tgagcagcca	caccacaacc	360
tctacggcga	ataaccggac	attattagcc	tttttgcagc	aaaaaaacgg	tgactgccct	420
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<210> 5593

<211> 417

<212> DNA

<213> Enterobacter cloacae

<400> 5593

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ggcatcgcca	ttctttctgc	cggaacctat	ctgatgcgtc	ttggcggagc	gaagcttgcc	180
aaccggcttg	cgctttcaga	acggctcgag	gcgctgcttt	cagacgcggc	taccgttttg	240
ctgttctccg	tcgcgttggc	gacaacgttt	tatgaagggg	accattttgc	cgggatggca	300

cgtgtgctgg	gcggtggggt	cgcggtgttt	ctggcctggc	gcaaaatgcc	gttaattgtg	360
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<210> 5594

<211> 216

<212> DNA

<213> Enterobacter cloacae

<400> 5594

agaaatgatt	caaccacaaa	tcattacctg	atgcaaaaac	gcgcttatg	gcgcgaaaac	60
gctcatttta	ttgacacaga	ccacacattt	cgatttcgat	atttctcggt	tgtgctcggt	120
aacgataaat	taacactatg	tctacagggc	atcgtgactg	tcacgggagg	tcacgcaaac	180
aataaacatt	actcttttgc	aggattccga	ttatga			216

<210> 5595

<211> 204

<212> DNA

<213> Enterobacter cloacae

<400> 5595

ccttataaaa	actacggcat	tgataatcat	tttcaatatc	atttaattaa	ctataatgaa	60
ccaactgctt	acgcggcatt	aacagctgtg	ccgcccagaca	ataatggaga	ggattatgag	120
ttatacactg	ccatccctgc	cgtatgccta	cgacgcactg	gaaccgcatt	tcgacaagca	180
gacgatggaa	atccatcaca	ctaa				204

<210> 5596

<211> 339

<212> DNA

<213> Enterobacter cloacae

<400> 5596

cgatcagtat	caccgtctgc	tgtcagcggc	gggattatcc	accagctgga	ccagaacgat	60
gcagaagcgg	cggataagcg	gcaagatcga	gagcagttcg	cggagattat	gggggaaata	120
gttcccgcag	aaagtagggc	gggtaaggcg	aagccgccac	ccggcacata	cggttacgaa	180
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ttcaccacgc	cacggtgctg	ttgcatggcg	gtttccacaa	tcgccagccc	cagtcccgtg	300
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<210> 5597

<211> 201

<212> DNA

<213> Enterobacter cloacae

<400> 5597

ccgatgaacc	cgcataacgt	tcatctccgc	tgctctgcga	gtgtagccgt	gttaagagat	60
gaagaaaatc	ccattcatca	gggtttttgcg	aaacctgaca	gtgaaacaaa	aaggaaagtc	120
ttttttgtga	cagttagata	caattcaccg	tctcactccc	gccattcgat	tcagggaagg	180
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<210> 5598

<211> 207

<212> DNA

<213> Enterobacter cloacae

<400> 5598

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ccgcaagtct	gggtcaattc	ggcgaaatgt	aaaataccgt	caatgcttac	attaatttat	120
gttattaaaa	acaacgcttt	tatttatcgc	attgataatt	acaggaaaaa	tattcaaaaa	180
aaacgtaaga	aagggtttatt	cagataa				207

<210> 5599

<211> 210
 <212> DNA
 <213> Enterobacter cloacae

<400> 5599
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 tatgacagtt atttttttat tggggaattt agagggttgg gggaggggat gtcgggtggc 120
 gctgcgctta ccacgacctt cgggaccgta ggcccgtgca agcgaagcgc cgccgggcaa 180
 ttcaaacaga ctactccttc ggcagcataa 210

<210> 5600
 <211> 219
 <212> DNA
 <213> Enterobacter cloacae

<400> 5600
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 ggcgtgggga tctttttttc tgtgcggcct gtacagggca acaaacttga ctctgttcac 120
 gaaaatgaaa ccggttttcg cgatctgctt gcaacggcaa tcccctttgc acatcatcaa 180
 actgaaaccg gtttctgtaa ctgtttttgc agaaaataa 219

<210> 5601
 <211> 294
 <212> DNA
 <213> Enterobacter cloacae

<400> 5601
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 gtgcgccatc acacaggcaa cttcgcaggc gcgacaaccg ataacctgtt gagcggttggc 120
 cataataaaa cgattcataa caacacctgt ttttggttca ataaccttat tctttctatt 180
 gttatcgtat ttaccacag cagcatggcg acgcaatgtt caaatgccca ggaaggcgaa 240
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<210> 5602
 <211> 216
 <212> DNA
 <213> Enterobacter cloacae

<400> 5602
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 aagaaaactgc tccagctggc gtatttgcag gctgacggcg ggctgggaaa taccattac 120
 atctgctgcc gcagaaaagc tgccgcgttg aacgaccaga cgaaaagtgg cgagggtgcc 180
 cagattgagc gtcgtcatgc aaagtttctc ttatag 216

<210> 5603
 <211> 480
 <212> DNA
 <213> Enterobacter cloacae

<400> 5603
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 gccgtagcgc cgcaggaaaa accccagccg ccagcaaaac tgatcgtcga cccaccgctg 180
 gcgggaccgc tgagtaaagg tgcggtcttt attcagtacc gcgtcgaaaa cctgcgcatt 240
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 gggctgcccg ccgggaaaca caaagtaacc atcatcggtg ctgacccgac gcataagccc 420
 atcgaccata aaaccgttga gttcaccgtg ccgccacacg ccgcggttca tcacttttaa 480

<210> 5604
 <211> 198

<212> DNA

<213> *Enterobacter cloacae*

<400> 5604

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attccactta	aggatatatc	ttcgaaaata	ttgaacatta	aatccacaaa	agaacaaaag	180
gattcactat	ggttgtga					198

<210> 5605

<211> 849

<212> DNA

<213> *Enterobacter cloacae*

<400> 5605

ccatcatcgt	tgctgaccgg	acgcataagc	ccatcgacca	taaaaccggt	gagttcaccg	60
tgccgccaca	cgccgcgggt	catcactttt	aaggagcctg	ttatgaaagc	attgtctgta	120
ttaacagcgg	cgctgctggc	ggtttccacc	agcgcgctgg	cagagacgaa	agccagcgtg	180
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gccgcgacgc	aaagccctat	taaggccgat	gcgtttgggg	agaaagtcgc	gcatgccgcc	660
tggcatgaca	aaccgagctg	gtatgtgatc	agcaaaaatg	accggatgat	caatcctgag	720
cttgagcgcg	caatggcgaa	gaaaatcaac	gccaacacca	cggaggtagc	ggcaagccat	780
gtatcgatgg	tcagccagcc	ggacgtcggt	accgtagcga	ttgaacaggc	gttatcgggt	840
caacagtga						849

<210> 5606

<211> 1233

<212> DNA

<213> *Enterobacter cloacae*

<400> 5606

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cccgaagata	tggtctcctg	caatcttgct	tttattgatt	gcaagctgcc	cggctcgcat	180
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aataacctgc	atctgcattt	caccgcagaa	gtgttcctga	tccatgaagg	gacgtggcgt	360
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aatcgctgta	tcgatcctga	tggtacgtg	gcggatgccg	acatcctgcc	agccacggcc	1200
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<210> 5607

<211> 603

<212> DNA

<213> *Enterobacter cloacae*

<400> 5607

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aatcctcagg	ggctgcccgc	gcctattacc	atgccgacac	acttgagacc	ctgggcatac	480
cggacgcctc	ggctatcggc	atgggcccgc	tgcttaacgc	cctgcaaacg	ctgctgtggc	540
gctatcctca	gcacgctggc	gccgtacgca	atctgctcga	tcgctggaag	atgggcgccc	600
tga						603

<210> 5608

<211> 1434

<212> DNA

<213> *Enterobacter cloacae*

<400> 5608

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gcaggggtggc	gctggctgac	caaaggcggc	tggcacacca	ccgctcgcat	cagtagcctg	180
accccacagg	agcgggagtg	ggcgggtatc	gcctggcgct	attttgagaa	taacacccaa	240
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<210> 5609

<211> 189

<212> DNA

<213> *Enterobacter cloacae*

<400> 5609

ggaggtgcta	tgttttctgt	cggtgattat	gtccaaccgc	gtcagggcgg	tccgaaactg	60
aaagtgctcg	aagtgaatgg	tgaaaacatt	gtggccgtgc	aggccagcga	tgagcagagc	120
gagaaatatc	acctgaaagc	ggcggacgta	gttctgtact	ccgaagaagg	tgactttggc	180
gtctgctaa						189

<210> 5610

<211> 1665

<212> DNA

<213> Enterobacter cloacae

<400> 5610

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aagctgaaat	caatactctt	ttttcctctt	ctggccgggc	ttgtggcggtg	ctggctctca	180
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<210> 5611

<211> 225

<212> DNA

<213> Enterobacter cloacae

<400> 5611

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ttacaccacc	tttgcattgc	tatgcaaac	aaaaaattaa	aattctcaca	acaagatcga	180
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<210> 5612

<211> 969

<212> DNA

<213> Enterobacter cloacae

<400> 5612

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aagccatga						969

<210> 5613

<211> 519

<212> DNA

<213> Enterobacter cloacae

<400> 5613

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aaccgcgtcc	tgccggaaaa	tgataaacgg	cacttttttg	aaacgttctg	ggaaacgttt	180
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gattttctgg	aacgcctggc	gcgggagcag	agtgatgaag	gactaggcct	gccaccgcga	360
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gatgaagaga	tcctcacagc	ctggggcgatg	gcaattgccc	ccgggctgga	gtatctgcgc	480
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<210> 5614

<211> 249

<212> DNA

<213> Enterobacter cloacae

<400> 5614

aacaaagcca	tcgtttctga	agagacgaac	gcgctcccgg	cgaaaataact	gtttaataaaa	60
caggatttac	cgttactttc	tttagcgcca	ccgatgcccg	ccaggattaa	aagtggcaac	120
ctcagggcaa	agctaattat	ttacacagga	aatagttggt	tatttatatg	tttgcgattt	180
ataagcctta	ttatttgtgc	aggtattgat	ttatttcggt	atgaaaatga	tatagctata	240
aatgtctga						249

<210> 5615

<211> 201

<212> DNA

<213> Enterobacter cloacae

<400> 5615

tgctcatcaa	agggacgcag	cagattgagg	aaaatctgca	ttcagggttg	gaaccattca	60
acgctgtgtg	ggttgcgtgg	cggggagctg	tcgccactgg	cggatgtgct	cgatcagggc	120
tctgagcttg	ggggccatat	tgtggcgctg	gggaaaatag	agataaaaaac	caggaaaaga	180
tggaagaaac	gcattccagta	a				201

<210> 5616

<211> 951

<212> DNA

<213> Enterobacter cloacae

<400> 5616

tggcgaaata	taacgtcgcc	gcgcgctgga	tacctaaacta	aggaagggct	gatgcgggat	60
aaatTTTTgc	tgacctgcgc	actgctgtgc	gttgccactg	gcgcagagtc	ggcgccgaag	120
gacgatgcgg	attcactacg	tgacaagaac	ggcgagccgg	tgcaggctgg	cgtgttcacc	180
agccgctggg	gtcgcctggt	ctccggtaat	gaagacgtct	tctctggcgc	gctgagcttt	240
agttcgggac	taaaagagca	gtggatgact	atccctaaca	gctcggacac	cgcagagcag	300
aaacgtaaata	acaaccagac	gcttaatctc	agcctgcaat	actcacccta	cagttactgg	360
tttgcaaacg	tgacatcgcg	tttgccgggtg	acggacacca	gccgctacac	ggccgatttt	420
cgttacagtt	ttggctatga	tgactggcat	gccaacactt	tcagcctggg	gtacagcaat	480
tacggggata	accgcttctg	gacgtcagga	aaccgtcgcc	acacctatct	tgagcagggg	540
gccgtgacgc	tggcgtataa	atTTTTactg	ccgaaaccga	tagagaatac	gctcctgatt	600

aacaaaggcg	actctatcat	ttgccagatg	ggctacagct	gggttccgcg	ttattacgat	660
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ttctctgttc	agtatgctaa	ctactccggc	acccgttacc	ccggtcacca	gagcggcagc	900
ggtaaatttc	gggaaggcac	cgtcagcgtc	atctggttct	taccgcttta	g	951

<210> 5617

<211> 981

<212> DNA

<213> Enterobacter cloacae

<400> 5617

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tacgccacgc	cgggtggtttt	cactaccccc	gaaaaacagc	tgcatgagct	ttcccagttt	180
atgcgcctga	cgcttgaggc	gatgcacagc	ttcccgcagc	gagcgggtgct	gacggaggat	240
attctgtgca	gccagaaccc	gggggatgag	tactatgcgg	cgcagcgtac	cgtagcccgc	300
attcagcacc	agggggaggg	atthtttggc	ccgccgacgg	ggaaaaatgt	ctgggtccgc	360
acctgggccg	atcgcatctg	tgttgatggt	gccgtacgcc	aggagtggct	gcttcaggat	420
cgtgccgcga	ttgtggcgca	actggggctg	gatgtccgcg	atthttgctt	taacctggcg	480
accatgcgcc	agcagcttgg	gctggaatct	gtgtctgctg	agacgctgga	cggccgctgg	540
gcgggcgggc	ccgagggcga	cgacgtggaa	ggggcgctgg	ccggggctcg	tgagcgtac	600
ttaacgatgt	gggcggggcg	taacagcggc	gtggtgcccg	gtctctatca	cccggcggcg	660
acgctgtacg	cgccggggca	ctgcctctgc	accggcgaac	aggaaattgg	cgcacagctt	720
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ggttacggca	aatttggtgc	gccgacccgt	aaacccatat	caattaccgg	tatcagtcag	900
cttgaattac	gtgatggttt	aattttccgt	gaatacctgg	ggatcgatga	attagcgatt	960
tggtcgcaaa	tatttaatta	a				981

<210> 5618

<211> 183

<212> DNA

<213> Enterobacter cloacae

<400> 5618

gtcactgtag	atccgggtca	gcaagccttc	ggggccaaat	tgctgtttta	tccagcgcgt	60
gacctgaccg	gtcgccgcac	gctgcgtggc	gagcagcatg	cgcgaatcct	ggcgcggatt	120
attgattcgc	cgcgttacca	gcagcccatc	ctccaccgcc	tcacgcgtca	tgtattccgg	180
taa						183

<210> 5619

<211> 1257

<212> DNA

<213> Enterobacter cloacae

<400> 5619

aatacaagaa	acttttttagc	atggagaacg	cgacgcccc	tgagccagat	tgcgcctgtg	60
cttataaata	aagacgttga	aaaaccaacg	acatggcggt	acatcgcgtc	ggataaacgt	120
gatttacgta	ttgattttat	gcgcgggtatc	gccttagtga	tgatggtggg	ggcgcacacg	180
gaagtgatgt	cgatatttaa	tatattttacc	tgggaaagggt	ttggtctggt	caccggcgct	240
gagggttttg	tgatcctttc	aggattttatg	ctgggaatgt	taaaccgtgt	aagattgcaa	300
aaagcagtat	tgttgactat	atcctgggga	ctttatctgc	gtgcatggaa	aataatcgg	360
ataaatatca	tcattattct	ttcatttttta	ctgttaggat	atctgccgtt	tattaacgtc	420
tttgagggtga	cccatttttac	cgatcggttac	tcagggtacaa	cctgggtcaact	gtatccgggtg	480
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caaacgcaaa	tccttgggct	ctatattttt	cttctgctgt	taagccccct	gtttttgggg	600
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tcttttgcgc	gtacgcccgc	cggtaaggct	gtgctcgtgg	cgctgggtgat	aattgcgctg	840
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cacagcctct	cgccggagga	cttcaacgct	ttttatcata	cctgggcggc	aaaaaatggc	960
cttgggcccg	tcagggtact	taacgatata	tgtctgatgg	tgaccgtcta	tttgggtgctg	1020
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cattcgcttt	atacctttat	tttgcattgc	tacgtcgtat	ttctgataag	ccagttcgtc	1140
acgttcgata	tgtggcgcca	ggactggata	gtgaacacct	tcattcacgc	tgccggcgctg	1200
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<210> 5620

<211> 381

<212> DNA

<213> Enterobacter cloacae

<400> 5620

agggggattc	ctggtatggt	gcattctcaa	tcctcgcggg	tcggcagcat	gttgcgtgctg	60
ctgaccgcga	taatagcctt	cgcggtggcg	ctatacgctt	ggtggacgcc	gcttaccggc	120
gtcactggca	ccattggcgc	actgggcgtg	gtcattgccg	gcgtagtgtt	ggcgatcctg	180
accgttatgc	tacgcgcggc	atcgcgctgc	ggggcgcgcg	ttttcctgat	tattgtcact	240
ctggtggtgt	tggcgggtat	tggttttgcc	gccgcgctgc	tgaccagta	catcataacg	300
gcagccatgg	tggtcggcct	gataggtctg	attatgctga	gcagccattc	cgcccgttac	360
aaccatcgcg	tcagaagctg	a				381

<210> 5621

<211> 189

<212> DNA

<213> Enterobacter cloacae

<400> 5621

atttataaag	gaaggtatac	gaagttgggc	tttttggtctg	gagcagtgtt	ggcaacctgg	60
ttgtctttta	cctaccgcga	gcaaatgaga	gctgtttttg	aacaactggg	tacgatagtg	120
cagcaaatca	cgcagccttc	atcagagtct	cattctgata	tggtcacacc	ggaacagtca	180
tatccttga						189

<210> 5622

<211> 564

<212> DNA

<213> Enterobacter cloacae

<400> 5622

actgcgtcag	cagtttaactg	gaggagcaca	atgaaacggt	tcctgtttat	ggcgcttgcc	60
ctgacgatgc	tgggtggccg	atgtagcacc	gaggtgacag	agtatcgta	gcagcagcca	120
cggcttgata	tttttactta	cttccagggg	aaaaccgagg	cgtgggggat	ggtgcaggat	180
cgcagcggta	agcagatccg	ccgttttcac	gtcgagatcg	ccggggatgt	tatcggcgat	240
acgctgaccc	tgaacgagca	ttttgtctac	gatgacggcg	aaaagcagca	gcgcgtctgg	300
catatccgcc	gcgtagggca	gaatcggtac	gaaggtacgg	cgggtgacat	agaaggtgtc	360
gcgacaggcc	aggcgccggg	caatgccctt	aactggcgct	acagcatgaa	cgtgaaggcg	420
gacggcaaaa	cctggctgct	gcactttgat	gactggatgt	atttgcagga	cagcaccctg	480
ctgttcaata	aaactgagat	gaagaaattt	ggcgtcaccg	tcgccacggg	gacgctgttc	540
tttaccgcga	aagaggcgcg	ttaa				564

<210> 5623

<211> 183

<212> DNA

<213> Enterobacter cloacae

<400> 5623

ctcaccocat	cattgttaat	aattattttc	accggtgact	acaaccgggc	taatgatggg	60
gggagtgtta	cttattttaga	ggtattaaat	attaatcctc	gtcaaatcag	gggaattgag	120
tgggaaaatc	attgcggctc	agcgggcgca	ttctcctgcg	tacctgcgcc	gctcaccggg	180
tag						183

<210> 5624
 <211> 186
 <212> DNA
 <213> Enterobacter cloacae

<400> 5624
 ctcttgata cgataatgca tcattccttcg caacgatgtt ccgccgtgtc acaggacagc 60
 caccttcgta ttatcacccg gcattattca aaaagttcca cgggacaggg caccgatcat 120
 agcgtcagct atgtaccagc taaagaggct gccacgtcaa attctttaat tcatgagaag 180
 ggttaa 186

<210> 5625
 <211> 294
 <212> DNA
 <213> Enterobacter cloacae

<400> 5625
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 cagtaccgagc ataccatcaa taccatgaat attgccgttc ccatttcagg ccctcttcag 120
 cgcggttgaca tggcgagagc agtcctgccg caccctcggtg cttttgtagt taaccgagggc 180
 gtttccatcc tgatcgatga tgatgcgggc gccatcctct acggcttcga taatttcctg 240
 gtgactcatg acctgcaaca aggattccgg gctggaaaag agcgtcatca gtaa 294

<210> 5626
 <211> 543
 <212> DNA
 <213> Enterobacter cloacae

<400> 5626
 ccacaattgc aggtgtcttg ccccataata gcggcgatga aatccgcgca acgcggcggtg 60
 cagcgatccc gtgtcttgcc ccagagaatc atggctaccc acctgaaaac ggcgaaaaaac 120
 ctccggttgt tccatcgcggt ggcgcgccgc ggcttcgcgc cgggcgggat catgctgctg 180
 gataagccgg ttttccgcat caatgaccgc cacttcgcgc tggatgtcct gccgggaaag 240
 cagcggcgac tgcaacatat cccgcagtcg cgcgacgccg tcggacaggt tatcggcggc 300
 aacgtcgaag aaaaaagcgc tgtggcgagc cagcgtggtg gcattgacgt tgccgccctg 360
 gcgctggacc caggccatga gtcgatcatc gccctgatag cgttggttac cgcggaacag 420
 caggtgctca agcaaatgcg cgagaccggc gaatcgcggt ggctcgtgat ggcttcgggc 480
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 taa 543

<210> 5627
 <211> 186
 <212> DNA
 <213> Enterobacter cloacae

<400> 5627
 atactgtatt tatatacagt attgtatatt gatagcaaag atcaaggggg aacgaggagt 60
 gacgtcgtac ggggtgcagga ggaagagggt tatattcaga atggcggcga ggcaaatctg 120
 gcggaaaggg tatttaatga aatgtttaag gaataaagt gccatacgg caggatatgg 180
 cagtga 186

<210> 5628
 <211> 438
 <212> DNA
 <213> Enterobacter cloacae

<400> 5628
 cccatgagca cgttgccgtc cgtcatcagt cggttcgttg attactacgc cagcgtggat 60
 acccagccgc cttcggcgct ggcggggatt tatcgccgc atgccacgct tatcgatccc 120
 tttggcgaac atagcggggg gttcgcgac cagcgtatt tcaccactt gctggctaac 180

gtccagcact	gtcgcctttac	cgttgatgcg	ccgttgacgc	agggcgatcg	ctttgtggtc	240
acctggatga	tgcactgggc	gcacccgcgt	attgcccggg	gtgcagtgcg	acagctgccg	300
ggctgctccg	tggtagacat	gcgcgacgat	cgcatgttgc	gccagcggga	ttactacgat	360
gccggagaga	tgatttacga	acatctcccc	atactcggct	gggccgtacg	cggcgtgaag	420
cggagagtga	aatcatga					438

<210> 5629

<211> 528

<212> DNA

<213> Enterobacter cloacae

<400> 5629

tgcccgaccc	atcagcgtgg	tgcagctgac	tgcggaacgc	gtatgaagcg	ttacggggcag	60
gtatttctgt	tggccatcgg	ttttgatctc	tactggacgc	tggtggtgct	gtttcgcgag	120
caggggctgg	tcactctgat	cgcgctggcg	gtgcttgcc	ggctgttatt	accgccatca	180
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tggctaattg	ttgccaccgt	ctggacgcac	ctgacccgca	cgaccacctt	gccaggatgg	360
ttgctgacgg	tgctggcgac	tctgggcgga	ccggtagcct	acctgatcgg	cgagcatctt	420
ggggccatta	cgtttcagga	gccgaccttt	atcgtcgtca	gctggatggt	ccccggctgg	480
ctggtgctga	tgctgttttt	ccacctgttg	atggggagac	aacaatga		528

<210> 5630

<211> 468

<212> DNA

<213> Enterobacter cloacae

<400> 5630

tcttcaccgc	ctggaaaaag	gagaaaaagc	gttatgcaca	ttattttaat	tttactggtg	60
attgccgggtg	gcatggggct	gtccgtggaa	gccgggctgc	tggggccgct	gggcgcagag	120
gtgggcgacc	tgtgggcggc	gttcagcata	tttagcgtgg	gaacggggct	aacgtttctg	180
ctgatgctgt	ttttcagccc	ccgcaacagt	ccctcatttt	ttgcgcagcc	ttcatggcac	240
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atcggcattg	ccatgacgat	gatcggcatt	ctggcaggcc	aggtttttaa	aagcctgatt	360
atcgaccact	atggcctgct	gggtacgccg	caccgcagga	tcgatacaaa	acgcattatt	420
gcgctgggat	ttatcatcgc	cgcgctcatt	ctcgtggcgc	aggggtaa		468

<210> 5631

<211> 279

<212> DNA

<213> Enterobacter cloacae

<400> 5631

aatgcgccag	tagacgcccg	gagcaagtac	ctgcacctca	gcatgaagcg	cggcggaggc	60
gtcgccgaac	tggaacgtct	gcgcgccttc	acgcagcgtc	agcgagccac	cgcgagacc	120
gttcagcagg	cggaaagagca	accatcgcg	gacgcggacg	ttgcgcggga	tatcgggttc	180
aagcgcaaag	acgggatcgg	tcatgagcgt	tcactcctgc	tgaggggatg	gttatgcagc	240
ggcacgcgct	tcagccacag	cctgagcgcc	tgccagtaa			279

<210> 5632

<211> 765

<212> DNA

<213> Enterobacter cloacae

<400> 5632

agagggcctg	aaatgggaac	ggcaatatcc	atggtattga	tggtatgcgg	gtactggtac	60
accagccgcg	acctctcaac	ccggttcaaa	attaagcggt	cattcggtcg	ggatgtctat	120
ttccttgtgg	cgctgtatgg	ctgcattttc	gttttacagg	gcgtgatcgc	caccggcctg	180
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aaatatgccg	actggcaaat	tgattttatg	aactggagct	tcctggggat	tcaggccccg	300
gtgggtggtaa	tgctgacctt	cgcgatcctg	ttctgtctct	accgctcgaa	ctgggcccgg	360

agcgcgcggc	tggacggcga	aggccgaaaa	aagctctaca	agcggctggc	gcaatcgagc	420
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aaatcgcggc	ggatctatat	tgggatgata	cataccgcca	cgctggagta	tgaaaaaacg	540
gccaatatcg	tgcttattcc	gatgctgagc	ggctaccgtg	acgggaaaaa	catgcagctc	600
tgtatcgaac	ataactacag	caaatgggat	gccgagcatg	atattacgct	cgattcagag	660
cccaaaagcg	ccatggattt	tcgcaaagtg	atcatgctgg	atcagatcga	gagtatttcg	720
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<210> 5633

<211> 660

<212> DNA

<213> Enterobacter cloacae

<400> 5633

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gagaacaata	tgcacacgag	taaaaccctg	aaaaggctgc	tagccgtatc	agcagttgca	120
gcaatgttca	gcaccgttgg	cgtacaagcc	cagacgacaa	gcgccgcaca	aactcaaact	180
gcgggcaagg	ctcaaccgga	cgccagactc	agctccggcg	acgagaaagc	gttgaaggac	240
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agcagtgaag	tgaaaacatt	cgctcagaaa	atggtcgacg	atcacggcgc	cgcgctgacc	360
aaagtccaga	ccgttgccca	gaaaaagggc	gtggagctgc	cgaccgaacc	agacgccgcg	420
cataaagccc	tgaactcaag	gctggaaaac	cagcgtgggt	acgcttttga	caaaatgtat	480
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agtaaaatcg	acgatccgga	tgtgaaaggct	ctggccaacg	agcacacgcc	cgtcgcttgag	600
cagcatctga	agtccgcgca	gcagatgtca	accactccg	gcgcatacgc	cgataaataa	660

<210> 5634

<211> 258

<212> DNA

<213> Enterobacter cloacae

<400> 5634

cgagatagtc	gcgctatggc	gcgagatgac	tcgccgtcgc	cgtcgctggc	gggtgctttt	60
cacgggctga	ccggaaccgc	agctttcttc	ctgtgcgtgg	tttttagtca	aaaaaaagcc	120
ccgtactacg	acggggccag	gctgcttatt	tcgctgttat	ttatccagcg	cgtaggcaat	180
cacgtagtca	ccacgatccg	gcgactggcg	tgcaccgccg	gcagagatca	gaatgtactg	240
tttgccggtt	ttcggtga					258

<210> 5635

<211> 573

<212> DNA

<213> Enterobacter cloacae

<400> 5635

ttatcgacca	ctatggcctg	ctgggtacgc	cgcaccgcag	gatcgatata	aaacgcatta	60
ttgcgctggg	atztatcata	gccgcgctca	ttctcgtggc	gcaggggtaa	cgttatgaca	120
gtgattatga	ttattctggc	gggtgattggc	ggcgcaacgc	tgagcattca	ggctgccatt	180
aacgggcaat	taggcagcag	cgtgggggta	ttcaaaagcg	cgtttctgac	gttttccgctc	240
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atggatgtac	ccaaatggca	gcttctgggc	gccctctgcg	gcgtgcccta	tatcgtgatt	360
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cagctggcca	tgagcatgct	gattgataac	tttggctggc	tgaacaatga	agccattccg	480
ttttcagtga	gccgtttcgg	ggccgtcgtc	tgcttgagta	ttgcgctctt	cttcatttac	540
tcaagcagta	aacttcagcc	cgaagaggat	ttaa			573

<210> 5636

<211> 198

<212> DNA

<213> Enterobacter cloacae

<400> 5636

cagcaaaaaa	atccggggcgc	tcaaagccgc	ctgatcgta	gaacgactca	tcacctgtcc	60
tgccgcgcgc	ggccggaaac	ggctcgcgc	ttaatcatgc	attatgtcga	tcttctcgaa	120
aacaatgcga	ttgaacattt	taatctgttc	tggcgtaaaa	tttggttaca	gcatttcctc	180
tcgtcagacg	tatgttaa					198

<210> 5637

<211> 1131

<212> DNA

<213> Enterobacter cloacae

<400> 5637

atcgcgcagt	tcatgaagaa	ccctcatggt	gcagtgaagt	taagtcactt	cccctgcgcc	60
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aaccaaatga	gtcaggcttt	cacattttacc	cttaagcgca	gttgctttga	tgaaaattat	180
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cgtcaggaga	acctgcgcaa	cacgctgggt	atgatcaaca	accgctttta	cgcgctggcg	300
agctgggata	acccgaaagc	tgaccgctat	gccgtcgagc	tgagagattat	ttcagtcgat	360
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gataaaaaaa	cccacgagcg	catcgaaggc	atcgtcggaa	ataacttctc	atcgtatggt	480
cgtgactatg	atttcagcgt	cctgctgctg	gagcataata	aagatcaacc	ccgttttacc	540
ctccccgaga	attttggcga	gctgcacggc	aatatcttta	aaagcttcgt	tcattctgcg	600
gaatatcagg	cgaacttcaa	aaaagcgccg	gtgatctgcc	tgagcgtctc	cagcaaagac	660
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gagtcgctaa	cggaaacagta	cttcgcgaag	atgggcctga	aggttcgcta	tttcatgccg	780
gaaaacagcg	tcgcgccttt	cgccttcttc	ttcaccggcg	atttactgcg	tgattacacc	840
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gatcactcat	taacaaaaat	cgtctatgac	cgtgaagagc	gcagccgggt	ggccattgaa	1020
caggggaaat	ataccgaaga	gcggtttatc	aaaccctaca	aaacccttct	tgagcagtg	1080
tctcatcact	tcacgctttc	atttaatacg	gataaaaagg	tcttctcatg	a	1131

<210> 5638

<211> 210

<212> DNA

<213> Enterobacter cloacae

<400> 5638

ggatgtcacg	cgatgaaaca	tttactgatg	acgctctttt	ccagcccggga	atccttggtg	60
cagggtcatga	gtcaccagga	aattatcgaa	gccgtagagg	atggcgaccg	catcatcatc	120
gatcaggatg	gaaacgcctc	ggtttaactac	aaaagccacg	agggtcggca	ggactttctg	180
cgccatgtca	acgcgctgaa	gagggcctga				210

<210> 5639

<211> 210

<212> DNA

<213> Enterobacter cloacae

<400> 5639

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tcgccccgca	tcaggggcat	ttttttggct	gtctgtaaac	aaaaaacccg	ccagaagcgg	180
gtttttgtgg	tattcgagaa	aattatttaa				210

<210> 5640

<211> 330

<212> DNA

<213> Enterobacter cloacae

<400> 5640

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tccactgctg	ctccggccaa	aacggttcac	cataaaaaac	atcacaaagc	ggctaaacca	180
gcggcagaac	aaaaagcgca	ggccgctaaa	aaacaccaca	aaaaagcggc	aaaaccagcg	240
gtagagcaga	aagcccaggc	ggctaaaaag	catcacaaaa	aagcagcaaa	acacgaagcg	300
gctaaacctg	ctgcacagcc	agcagcgtaa				330

<210> 5641

<211> 219

<212> DNA

<213> Enterobacter cloacae

<400> 5641

catggtgatt	gtctggcccc	tgaagcactt	caaggatttt	taaccgagga	agcgttactt	60
tcaggccagc	tttctttaat	gcggtattgt	tgtcagtcac	gcggaatctg	tcctgttgct	120
aaacgattca	cttcaaaaga	agaagtgaca	gaaaatgcac	ttgggataat	gcgtctcatt	180
atagaactgc	cgtgcctaaa	tgaaaagttg	caagcgacc			219

<210> 5642

<211> 231

<212> DNA

<213> Enterobacter cloacae

<400> 5642

attaaacctc	cgctttattc	ttatatatat	gatttcctta	tgtttaattt	agctaaaggc	60
ctttcgtata	aacagaagtt	aaacggctca	ttttttctta	taatcgacaa	aagccatcca	120
gatggctgtg	aggggtggtg	ttttttgtgc	tattgcgtaa	ggattgtatt	aagcgccata	180
aaaatggggg	tattttttta	tctcaggata	tttcgtggaa	acaaaacgta	a	231

<210> 5643

<211> 462

<212> DNA

<213> Enterobacter cloacae

<400> 5643

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caggcagcgt	atagcgggta	tattgtggag	tttaataatg	gctcccgtct	ttggataaat	120
agggaaacat	tgctcgtcgg	atggttcgac	aatccgcagg	tgccctcaaaa	gggaaggatg	180
cgctttcaga	agacaaagat	gaatcttttt	gcttatcttc	ttgaacatgc	tggtcgaaaa	240
gaggtcagcc	gtgatgaatt	attacatcag	gtatgggaaa	agtatggcct	taagtcatcc	300
agcagacaac	tttggcatgc	aataggccag	cttaaaactga	gtctgtttac	gctaggtatt	360
ccttacgaat	ttattcagtc	gaataaaggt	aagacctatt	cactggaaaa	agtaaaggtt	420
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<210> 5644

<211> 258

<212> DNA

<213> Enterobacter cloacae

<400> 5644

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attaaatcac	ttgtcgtatt	ggtaaagttc	aaattacttc	gtgatgaacg	tctcgaatat	120
accagcaata	aaaatattga	tgagatgtac	gatttaatga	atgcgaagga	agaaatcctc	180
ataaggcatc	ataagcagat	gttggcattg	catctttcac	tattaatatt	cgttctatth	240
attgcttaca	tttactaa					258

<210> 5645

<211> 297

<212> DNA

<213> Enterobacter cloacae

<220>

<221> unsure

<222> (139)

<220>

<221> unsure

<222> (208)

<220>

<221> unsure

<222> (226)

<400> 5645

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ccgccgcact	cagttcagtg	gccgtccacg	cacgcccgtc	cattagcgca	caaagcatct	120
tcacgcgcga	cggatcggnc	attgcagccg	ccaccgcggc	aatcgccctt	tccagcatcg	180
cgctgttatc	agaggggttag	ctcgtctnta	acattcgtcc	gcccanggtg	tggtgatctc	240
agcgggccac	ttatcatcat	ccctcagcag	attaaggtga	ttcccatggg	cactgta	297

<210> 5646

<211> 339

<212> DNA

<213> Enterobacter cloacae

<400> 5646

tacttaagta	ttctcatttc	atcggcaaac	aacggagcca	atgagatgaa	cataacctcc	60
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cactggagtt	atttacgagc	tgcgcaacct	catcagaatg	attttgatta	cgaatttaac	180
accacattta	ttgacggttt	ggaattcgct	atctacgaac	gtgtaggtaa	ttattttggt	240
ctggttgatt	tcttcaagtc	atatgaagaa	gcatgtgatg	atgctaaaaa	aatcattgat	300
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<210> 5647

<211> 342

<212> DNA

<213> Enterobacter cloacae

<400> 5647

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gatatattgta	tctcagagtt	atcccatctt	gaatttagtg	cgtttttaag	tacggatggt	120
gctgctacca	ttgctatagc	aaaaaacgga	actaatatta	ctggacttat	gcaactgaat	180
aacgactatt	ctttattggt	ttatcatgat	ggtaaaataa	atatggaagg	tctaattaaa	240
gaaatggaat	taaaagggtta	tatgtatcag	ggagcaatgg	gcaatgatga	tgttgccgct	300
gagtttcccg	gtattctttt	aattgcacca	gagaagcttt	aa		342

<210> 5648

<211> 363

<212> DNA

<213> Enterobacter cloacae

<400> 5648

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gcaaaacaaa	tctctgagaa	ttttgcaaaa	tcatatccag	atttactgga	aggtgcagtt	180
ataacaaaaa	ttgaaataag	tggtgtgcaa	ggatcgcgtc	gaaacgataa	aatcgatttg	240
tcttatgatg	gagatgatat	tacggatcaa	aaaagcgtat	ctaaaaacca	attacgttgg	300
attgacataa	aagcccttag	cttccaaagt	acgattacca	gcagaatatc	cacccctttg	360
ctc						363

<210> 5649

<211> 663

<212> DNA

<213> Enterobacter cloacae

<400> 5649

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atgagtgatg	cttcaatggt	aaagcgtatt	atttcaggag	agcaaaagg	tactgactgg	420
ttggaatcta	ttaccagatc	atttaaatcaa	agctcacaaa	cagaaccgaa	cgcgctacag	480
aacacaggta	ttgaagctat	tttagattca	acaaatgtgt	ttcagggtga	acctgtcgtg	540
gagaacgata	taaaaaacag	cacgttttca	aacactgatt	ctgtagctga	acctgagaaa	600
tcagtttcgc	aacaggaaga	caatgctgaa	aatgggtttg	atatacgagct	caaaggctgg	660
taa						663

<210> 5650

<211> 633

<212> DNA

<213> Enterobacter cloacae

<400> 5650

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attaagcgtt	tacagaatat	agcaaaagtc	attagcggct	taggcgatgt	aagagttgta	120
atagacgaca	ataccaaagg	accgtatttt	gatcctgtca	ataaagtgtg	tgttttacca	180
aacggcgatt	atagcgatga	tgactttgtc	agtctgattg	aagggtttac	ctgtcatgaa	240
gctggtcatt	gtcgcctatac	cgctcagtga	gtttacagtg	acgcctttta	tagtgttctc	300
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gctgagaaac	gtaaagctta	tagcagggca	aaacgtctta	cggggcttat	aaatctgttc	420
gatgatgtac	agatggaaga	gaagggttgt	aacgattatc	cggatgcaaa	gcggcggttc	480
gcagccactt	acgcactgat	ggttaaagcc	ggaaggatga	ctcctgatat	atcttctcgt	540
ccggaaaatc	ctgtcctatt	tattgagtgg	tatctgctta	actcatcgcg	agtacaatgt	600
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<210> 5651

<211> 237

<212> DNA

<213> Enterobacter cloacae

<400> 5651

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cttgatggcg	ctgaagcgca	gattgcggct	aaggcaaaag	aggcaaaaac	ctcctacaaa	180
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<210> 5652

<211> 363

<212> DNA

<213> Enterobacter cloacae

<400> 5652

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acaaattcaa	agatcccggc	taaaatttct	attgccgacg	agaaatcggg	gcaacgtcat	180
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acgaaaaaaa	tcaatgccat	gctggataaa	gaaaatttcc	tgtgggcgaa	taatggggat	300
aacttcatca	tctttgacga	tcatcttatg	tataacggag	atcgctacaa	acgtgttgag	360
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<210> 5653

<211> 195

<212> DNA

<213> Enterobacter cloacae

<400> 5653

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cgagtagggc	tacacacgtg	ctacaatggc	gcatacaaag	agaagcgacc	tcgcgagagc	180
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<210> 5654

<211> 609

<212> DNA

<213> Enterobacter cloacae

<400> 5654

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gaacgtgata	atgaactgat	tgttatTTTT	aatgaggacg	gccccaaatat	cattgaactt	180
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gttgaggagt	ttgaaaaata	cggattaaat	tcatttcttg	acgtggataa	tctggattac	420
tcacttgaaa	aagccagtga	actcaaaaat	gagcagttaa	taaattgggt	ttcggacatc	480
atttgcaaac	gtgaaaaatt	aactttacgt	aagcgttttg	atgtcgcagt	aaaggcccac	540
tacgaaaatg	tagaaaacat	gtatgattct	tcaccacaga	ggggtcgaag	gacccgcgct	600
aagcgggtga						609

<210> 5655

<211> 220

<212> DNA

<213> Enterobacter cloacae

<400> 5655

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ctccccaagt	tggttttttt	tccgtttcca	gaagccagaa	gaattaccaa	tggttacgaa	180
cacggattcc	ctataaagat	ttttttactc	cggaacagac			220

<210> 5656

<211> 855

<212> DNA

<213> Enterobacter cloacae

<400> 5656

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gcgcagagca	tgtctcaact	catcaacgag	tacgacgaga	acatcggcgc	ctgggagacg	180
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<210> 5657

<211> 192

<212> DNA

<213> Enterobacter cloacae

<400> 5657

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cttact	tttta	tcaaaa	aataa	cctatt	gaat	atattt	tatat	ttttac	atga	180
cctga	ac	cat	ga							192

<210> 5658

<211> 216

<212> DNA

<213> Enterobacter cloacae

<400> 5658

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aagcgt	ggtc	tctctg	tga	tggtc	actct	tcaaaa	agaga	aatata	aattt	gatagct	gg	180
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<210> 5659

<211> 297

<212> DNA

<213> Enterobacter cloacae

<400> 5659

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<210> 5660

<211> 237

<212> DNA

<213> Enterobacter cloacae

<400> 5660

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caaggt	gtag	catcatt	gag	cgcgc	acga	agcgc	ggaac	gtatcg	ctaa	tggtt	caagt	180
gatgtg	ttta	gagatt	ccgg	caactc	tttc	agctt	caagg	gatgg	caaaa	tttct	aa	237

<210> 5661

<211> 210

<212> DNA

<213> Enterobacter cloacae

<400> 5661

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aagcat	ccga	ggccg	atgaa	gatgat	tcag	tg	tcagaaaa	aaacc	cgata	ccaga	acgac	120
ttaa	agaagc	gagat	gcagg	gcggg	actat	cacag	cgctc	tctgg	gggcta	cttatt	ggct	180
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<210> 5662

<211> 579

<212> DNA

<213> Enterobacter cloacae

<400> 5662

cagc	cttttt	ttagt	gatata	gaatag	taga	gtaac	caacc	ctgag	tcgta	catatt	tttct	60
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gcaatcatct atattggcaa agataacttc accagtaacg aagtagcgaa aattcttata 120
gggcgatttt cacttccgaa aaattattta aaggcaaaag cttttgctta taaccaaatt 180
caaggtctgg ttagaaaggg attgttaaat aaagtaagaa aattaggtgc gtatcaatat 240
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aacattcaaa taagaactct tattgaaaaa tacagcagcg agttggaaaa agtatcagga 420
gtaaaggaga tttatgaaga attgataatt gccgtgccga gcagggaaaa tgaattcagg 480
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<210> 5663

<211> 144

<212> PRT

<213> Enterobacter cloacae

<400> 5663

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Leu Cys Trp Cys Ser Gly Cys Cys Arg Ala Cys Ser Pro Ser Phe Cys
20          25          30
Leu Gly Ser Pro Pro Gly Ala Ser Cys Ser Pro Ala Pro Ser Gly Cys
35          40          45
Ala Phe Ser Cys Arg Phe Cys Phe Ser Ala Pro Ala Ala Ser Cys Phe
50          55          60
Ile Leu Val Val Ala Leu Leu Phe Cys Leu Arg Phe Val Val Phe Pro
65          70          75          80
Val Leu Leu Phe Gly Ser Val Cys Leu Ala Trp Phe Leu Val Phe Ala
85          90          95
Phe Leu Val Ala Leu Trp Met Asp Gln Gly Val Val Ser Trp Leu Arg
100         105         110
His Val Leu Leu Ala Pro Gly Ser His Lys Asn Pro Val Thr Leu Val
115         120         125
Ile Thr Gly Leu Ile Leu Arg Ala Ile Val Trp Ser Val Met Leu Leu
130         135         140

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<210> 5664

<211> 77

<212> PRT

<213> Enterobacter cloacae

<400> 5664

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Asn Arg Lys Glu Gln Gly Ser Lys Thr Pro Gln Glu Glu Asn Pro Asn
20          25          30
Lys Thr Lys Ala Asn Arg Arg Asp Ser Ser Gln Asn Thr Ser Arg Asp
35          40          45
Thr Lys Thr Thr Glu Ala Thr Pro Ile Gln Lys Asp Gly Asp Asn Ile
50          55          60
Ser Thr Lys Lys Thr Asn Arg Asp Lys Asn Arg Thr
65          70          75

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<210> 5665

<211> 163

<212> PRT

<213> Enterobacter cloacae

<400> 5665

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Asn Pro Asn Gln Ser Glu Ala Leu Gly Gly Thr Ile Ala Arg Gly Met
1          5          10          15
Val Asn Thr Gln Thr Gly Gln Glu Glu Lys Lys Val Gly Thr Arg Arg

```


Pro Val
130

<210> 5668
<211> 225
<212> PRT
<213> Enterobacter cloacae

<400> 5668

Pro	Leu	Pro	Leu	Ser	Trp	Gln	Ser	Val	Val	Lys	Thr	Ser	Ala	Thr	Phe
1				5					10					15	
Phe	Thr	Asn	Ile	Thr	Leu	Gly	Lys	Leu	Ser	Leu	Leu	Phe	Leu	Ala	Leu
		20						25					30		
Gly	Val	Ala	Tyr	Ala	Ala	Ile	Arg	Arg	Thr	Leu	Leu	Ile	Val	Tyr	Pro
		35					40					45			
Pro	Ile	Leu	Ser	Asp	Gly	Leu	Phe	Asn	Phe	Val	Val	Met	Gln	Thr	Leu
	50					55				60					
Phe	Tyr	Ile	Pro	Phe	Phe	Leu	Ile	Gly	Ala	Leu	Ala	Phe	Ile	His	Pro
65				70					75					80	
Arg	Leu	Lys	Ala	Leu	Phe	Thr	Thr	Pro	Ser	Pro	Trp	Cys	Ala	Val	Gly
			85					90					95		
Ala	Ala	Leu	Ala	Phe	Ala	Ala	Tyr	Leu	Leu	Asn	Gln	Arg	Tyr	Gly	Ser
			100					105					110		
Gly	Asp	Ala	Trp	Met	Tyr	Glu	Thr	Glu	Ser	Val	Ile	Thr	Met	Leu	Met
		115					120					125			
Gly	Leu	Trp	Met	Val	Asn	Val	Val	Phe	Ala	Leu	Gly	His	Arg	Leu	Leu
	130					135					140				
Asn	Phe	Lys	Ser	Ser	Arg	Val	Thr	Tyr	Phe	Val	Asn	Ala	Ser	Leu	Phe
145					150					155				160	
Ile	Tyr	Leu	Val	His	Pro	Leu	Thr	Leu	Phe	Phe	Gly	Ala	Tyr	Ile	
				165				170					175		
Thr	Pro	His	Ile	Ala	Ser	Asn	Ala	Leu	Gly	Phe	Phe	Thr	Gly	Leu	Val
			180					185					190		
Phe	Val	Val	Gly	Ile	Ala	Ile	Val	Leu	Tyr	Glu	Ile	His	Leu	Arg	Ile
		195					200					205			
Pro	Leu	Leu	Arg	Phe	Leu	Phe	Ser	Gly	Lys	Pro	Gln	Val	Lys	Ala	Gly
	210					215					220				

225

<210> 5669
<211> 215
<212> PRT
<213> Enterobacter cloacae

<400> 5669

Arg	Arg	Phe	Val	Pro	Val	Gly	Leu	Pro	Val	Thr	Asp	Val	Leu	Phe	Ala
1				5					10					15	
Ala	Val	Ile	Leu	Ile	Leu	Pro	Val	Gly	Tyr	Ile	Gly	Glu	Lys	Gly	Gly
		20						25					30		
Leu	Gln	Arg	Val	Phe	Met	Arg	Pro	Gln	Ile	Asp	Val	Ile	His	Gly	Asp
		35					40					45			
Ile	Thr	Thr	Val	Arg	Val	Asp	Val	Ile	Val	Asn	Ala	Ala	Asn	Ser	Ser
	50					55				60					
Leu	Met	Gly	Gly	Gly	Gly	Val	Asp	Gly	Ala	Ile	His	Arg	Ala	Ala	Gly
65					70				75					80	
Pro	Gln	Leu	Leu	Glu	Ala	Cys	Lys	Thr	Val	Arg	Gln	Gln	Gln	Gly	Glu
				85					90					95	
Cys	Pro	Pro	Gly	His	Ala	Val	Ile	Thr	Leu	Ala	Gly	Asp	Leu	Pro	Ala
			100					105					110		
Lys	Ala	Val	Ile	His	Thr	Val	Gly	Pro	Val	Trp	His	Gly	Gly	Asp	Arg

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<210> 5670
<211> 308
<212> PRT
<213> Enterobacter cloacae
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[illegible]

<210> 5671
 <211> 335
 <212> PRT
 <213> Enterobacter cloacae

<220>
 <221> UNSURE
 <222> (333)

<400> 5671

Met	Ala	Asn	Tyr	Thr	Val	Asp	Glu	Phe	Ile	Ile	Gln	Leu	Gly	Phe	Asn
1				5					10					15	
Glu	Thr	Val	Ser	Lys	Asn	Leu	Gln	Lys	Leu	Glu	Ser	Arg	Thr	Leu	Lys
		20					25					30			
Val	Ala	Glu	Arg	Ile	Glu	Lys	Asn	Leu	Asn	Arg	Ala	Phe	Thr	Pro	Lys
		35				40					45				
Gly	Asp	Phe	Gly	Arg	Val	Ile	Ser	Ser	Ala	Asn	Asn	Ala	Ser	Lys	Gln
	50					55				60					
Ile	Asn	Arg	Ala	Phe	Ser	Lys	Ser	Met	Asn	Phe	Asp	Glu	Ala	Gly	Lys
65					70				75					80	
Ser	Ser	Val	Lys	Ser	Val	Glu	Asn	Ala	Ala	Lys	Ala	Ser	Ala	Lys	Arg
			85					90						95	
Ile	Lys	Asp	Met	Tyr	Gln	Asp	Ala	Tyr	Gly	Ala	Lys	Gly	Lys	Gly	Arg
			100					105					110		
Ser	Asn	Pro	Pro	Ala	Ala	Gly	Lys	Pro	Gln	Gly	Arg	Gly	Ser	Asp	Leu
		115				120					125				
Thr	Ala	Ala	Asn	Ser	Ile	Arg	Ser	Leu	Ala	Asn	Thr	Gln	Phe	Tyr	Ser
					135						140				
Asn	Leu	Thr	Arg	Arg	Leu	Glu	Gly	Met	Gly	Ser	Thr	Gly	Gln	Ala	Arg
145					150					155					160
Ala	Met	Lys	Leu	Arg	Gln	Gln	Val	His	Gly	Leu	Arg	Asp	Asp	Ala	Leu
			165					170						175	
Ala	Asn	Pro	Ser	Ala	Ser	Leu	Asn	Gln	Phe	Arg	Leu	Ala	Leu	Arg	Ala
			180					185					190		
Ala	Thr	Asp	Ser	Ala	Ser	Lys	Trp	Ala	Ser	Gln	Asn	Arg	Lys	Gln	Val
		195				200					205				
Ser	Asn	Ala	Glu	Gly	Leu	Ser	Ser	Ser	Phe	Gly	Arg	Leu	Val	Ser	Val
	210				215						220				
Ser	Ala	Ala	Leu	Tyr	Gly	Thr	Phe	Glu	Ala	Val	Arg	Lys	Val	Val	Glu
225				230						235					240
Thr	Gly	Val	Ala	Arg	Glu	Gly	Val	Asn	Leu	Ser	Ala	Glu	Ala	Val	Phe
			245					250						255	
Lys	Gly	Gln	Ser	Lys	Asn	Ala	Lys	Thr	Phe	Ala	Ala	Gln	Phe	Ser	Asp
			260					265					270		
Gln	Ile	Gly	Gln	Gly	Val	Thr	Glu	Thr	Leu	Lys	Gln	Tyr	Thr	Gly	Phe
		275					280					285			
Ala	Ala	Gly	Ala	Gln	Asn	Ser	Leu	Gly	Tyr	Gln	Gly	Thr	Gln	Asp	Phe
		290				295					300				
Tyr	Lys	Asn	Ala	Ala	Val	Phe	Gly	Arg	Ile	Arg	Gly	Leu	Asp	Ala	Glu
305				310						315					320
Gln	Arg	Thr	Gly	Ile	Met	Ile	Phe	Thr	Ser	Arg	Ala	Xaa	Ser		
			325						330					335	

<210> 5672
 <211> 390
 <212> PRT
 <213> Enterobacter cloacae

<400> 5672

Asn	Lys	Leu	Asn	Ser	Gly	Ile	Arg	Arg	Val	Leu	Thr	Gly	Val	Phe	Lys
1				5					10					15	

Val Ile Ile Ile Arg Tyr Leu Val Arg Glu Thr Leu Lys Ser Gln Leu
 20 25 30
 Ala Ile Leu Phe Ile Leu Leu Leu Ile Phe Phe Cys Gln Lys Leu Val
 35 40 45
 Arg Ile Leu Gly Ala Ala Val Asp Gly Glu Ile Pro Thr Asn Leu Val
 50 55 60
 Leu Ser Leu Leu Gly Leu Gly Val Pro Glu Met Ala Gln Leu Ile Leu
 65 70 75 80
 Pro Leu Ser Leu Phe Leu Gly Leu Leu Met Thr Leu Gly Lys Leu Tyr
 85 90 95
 Thr Glu Ser Glu Ile Thr Val Met His Ala Cys Gly Leu Ser Lys Ala
 100 105 110
 Val Leu Val Lys Ala Ala Met Val Leu Ala Leu Phe Thr Gly Ile Val
 115 120 125
 Ala Ala Val Asn Val Met Trp Ala Gly Pro Thr Ser Ser Arg His Gln
 130 135 140
 Asp Glu Val Leu Ala Glu Ala Lys Ala Asn Pro Gly Leu Ala Ala Leu
 145 150 155 160
 Ala Gln Gly Gln Phe Gln Gln Ala Thr Asp Gly Asn Ser Val Leu Phe
 165 170 175
 Ile Glu Ser Val Asp Gly Asn Arg Phe Asn Asp Val Phe Leu Ala Gln
 180 185 190
 Leu Arg Pro Lys Gly Asn Ala Arg Pro Ser Val Val Val Ala Asp Ser
 195 200 205
 Gly Gln Leu Ser Gln Arg Lys Asp Gly Ser Gln Val Val Thr Leu Asn
 210 215 220
 Lys Gly Thr Arg Phe Glu Gly Thr Ala Met Leu Arg Asp Phe Arg Ile
 225 230 235 240
 Thr Asp Phe Gln Asn Tyr Gln Ala Ile Ile Val His Gln Ala Val Ala
 245 250 255
 Leu Asp Pro Thr Asp Thr Glu Gln Met Asp Met Arg Thr Leu Met Asn
 260 265 270
 Thr Asp Thr Asp Arg Ala Arg Ala Glu Leu His Trp Arg Ile Thr Leu
 275 280 285
 Val Phe Thr Val Phe Met Met Ala Leu Met Val Val Pro Leu Ser Val
 290 295 300
 Val Asn Pro Arg Gln Gly Arg Val Leu Ser Met Leu Pro Ala Met Leu
 305 310 315 320
 Leu Tyr Leu Val Phe Phe Leu Leu Gln Thr Ser Ile Lys Ser Asn Gly
 325 330 335
 Gly Lys Gly Lys Ile Asp Pro Met Ile Trp Thr Trp Val Val Asn Gly
 340 345 350
 Leu Tyr Leu Leu Leu Ala Val Gly Leu Asn Leu Trp Asp Thr Val Pro
 355 360 365
 Val Arg Arg Leu Arg Ala Arg Phe Thr Arg Lys Gly Ser Ser Pro Arg
 370 375 380
 Gly Gly Arg Thr Ala Ser
 385 390

<210> 5673

<211> 252

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (224)

<400> 5673

Arg Glu Arg Thr Asn Gly Asp Thr Met Thr Leu Pro Ser Phe Ile Asn
 1 5 10 15

```

Ala Ser Pro Ala Leu Pro Ala Thr Gly Gln Ser Ala Gly Leu Asp Tyr
      20      25      30
Gly Arg Ala Leu Ser Leu Arg Glu Met Ala Arg His Tyr Thr Glu Leu
      35      40      45
Pro Lys Tyr Leu Leu Ala Pro Glu Val Ala Gly Leu Leu His Phe Val
      50      55      60
Gln Asp Trp Gly Gln His Ala Phe Phe Asn Thr Leu Trp Asn Thr Gly
      65      70      75      80
Ala Arg Leu Asn Glu Gly Leu Ala Leu Arg Arg Arg Asp Phe His Leu
      85      90      95
Asn Glu Ser Ile Pro His Val Val Leu Arg Thr Ala Lys Gln Arg Arg
      100      105      110
Ala Gly Gly Gly Arg Pro Arg Lys Gly Lys Ser Ala Asn Arg Val Val
      115      120      125
Pro Leu Ser Asp Pro Ala Tyr Val Asp Glu Met Arg Arg Leu Phe Ala
      130      135      140
Ser Thr Lys Glu Gln Phe Glu Asp Asp Pro Ile Thr Gly Glu Arg Arg
      145      150      155      160
Ala Gln Pro Val Trp Asn Val Ser Asp Arg Thr Val Arg Asn Trp Leu
      165      170      175
Val Arg Ala Thr Asp Ala Ala Asp Arg Asp Gly Val Arg Leu Ser Ile
      180      185      190
Asp Val Ser Pro His Thr Phe Arg His Ser Phe Ala Met His Leu Leu
      195      200      205
Tyr Gly His Val His Pro Lys Val Leu Gln Gly Leu Leu Gly His Xaa
      210      215      220
Lys Phe Glu Ser Thr Glu Val Tyr Thr Lys Ile Phe Ala Leu Asp Val
      225      230      235      240
Ala Ala Ser Gln Gln Leu Arg Phe Thr Leu Asp Thr
      245      250

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<210> 5674

<211> 317

<212> PRT

<213> Enterobacter cloacae

<220>

<221>UNSURE

<222>(313)

<400> 5674

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Asn Ala Thr Gly Lys His Leu Pro Glu Gly Gly Val Cys Ile Leu Pro
1      5      10      15
Glu Leu Lys Met Ser Asn Ala Ala Met Lys Leu Asn Glu Thr Ser Ser
      20      25      30
Asp Ala Tyr Glu Lys Leu Glu Ala Leu Leu Ser Pro Asp Val Ile Lys
      35      40      45
Leu Lys His Tyr Val Asp Lys Gly Glu Tyr Leu Leu Val Leu Ala Lys
      50      55      60
Asp Leu Phe Gly Ile Pro Glu Met Asp Pro Lys Met Ala Val Pro Val
      65      70      75      80
Phe Lys Thr Lys Thr Ser Tyr Arg Ala Pro Leu Asn Lys Asp Tyr Ile
      85      90      95
Pro Asn Pro Arg Ile Leu Glu Gln Val Val Lys Leu Leu Ile Ser Pro
      100      105      110
Asp Ile Asp Leu Ser Val Cys Leu Lys Gly Glu Ser Gly Ser Gly Lys
      115      120      125
Thr Glu Met Val Met Tyr Ile Ser His Met Met Asn Trp Pro Leu Thr
      130      135      140
Ile Lys Gln Ile Asn Ser Asn Ile Arg Val Asp Glu Leu Glu Gly Glu
      145      150      155      160

```

Arg Ser Leu Asn Gly Gly Asn Thr Gly Phe Val His Ser Asp Leu Val
 165 170 175
 Thr Gly Phe Arg Asn Gly His Leu Ile Leu Leu Asp Glu Val Asp Lys
 180 185 190
 Ile Asp Pro Asp Thr Ala Ala Lys Leu His Met Pro Ile Glu Arg Lys
 195 200 205
 Pro Trp Ser Leu Ser Ala Asn Gly Gly Glu Val Ile Thr Ala Asn Gly
 210 215 220
 Tyr Thr Arg Phe Ile Gly Thr Ala Asn Thr Asn Met Ser Gly Gly Ala
 225 230 235 240
 Arg Arg Phe Val Ser Ser Gln Arg Gln Asp Ala Ala Phe Ile Lys Arg
 245 250 255
 Phe Leu Ile Val Glu Met Glu Lys Pro Asp Lys Val Ala Leu Thr Asn
 260 265 270
 Val Leu Thr Lys Arg Tyr Ser Ser Leu Pro Phe Gln Val Ile Glu Lys
 275 280 285
 Phe Val Arg Val Ala Ile Ala Val Asn Asp Ser Gly Thr Glu Asp Ser
 290 295 300
 Val Met Asp Ile Arg Gln Leu Val Xaa Trp Val Gly Thr
 305 310 315

<210> 5675

<211> 173

<212> PRT

<213> Enterobacter cloacae

<400> 5675

Val Leu Glu Val Lys Thr Ala Gln Met Gly His Glu Ser Thr Arg Phe
 1 5 10 15
 Thr Arg Leu Val Glu Asn Leu Asn Tyr Ala Val Glu Asn Leu Val Pro
 20 25 30
 Thr Phe Gly Ser His Arg Ile Thr Gln Gln Gln Ser Ala Ala Leu Gly
 35 40 45
 Arg Thr Ala Thr Gln Pro Ala Asn Gln Lys Ala Ile Ala Asn Leu Val
 50 55 60
 Tyr Gly Gly Glu Trp Gly Lys Glu His Leu Gly Asn Gln Val Ala Gly
 65 70 75 80
 Asp Gly Trp Lys Tyr Arg Gly Arg Gly Leu Lys Gln Ile Thr Gly Leu
 85 90 95
 Ser Asn Tyr Arg Ser Cys Gly Gln Ala Leu Lys Leu Asp Leu Val Thr
 100 105 110
 His Pro Glu Leu Leu Glu Lys Asp Glu Tyr Ala Ala Arg Ser Ala Ala
 115 120 125
 Trp Phe Tyr Ala Ser Arg Gly Cys Leu Leu His Ser Gly Asp Val Glu
 130 135 140
 Arg Val Thr Leu Leu Ile Asn Gly Gly Arg Asn Gly Leu Asp Lys Arg
 145 150 155 160
 Arg Ala Leu Phe Asn Leu Ala Lys Ser Val Leu Val
 165 170

<210> 5676

<211> 115

<212> PRT

<213> Enterobacter cloacae

<400> 5676

Trp Arg Asn Cys Val Arg Ile Glu Thr Ser Leu Phe Thr Thr Pro Glu
 1 5 10 15
 Cys Met Lys Ala Ile Thr Leu Tyr Asp Val Ala Arg Val Ala Gly Val
 20 25 30
 Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys Lys

[illegible]

<210> 5677

<211> 114

<212> PRT

<213> Enterobacter cloacae

<400> 5677

[illegible]

<210> 5678

<211> 370

<212> PRT

<213> Enterobacter cloacae

 $\langle 220 \rangle$

<221>UNSURE

 $\langle 222 \rangle (341)$

<400> 5678

Ser	Leu	His	Ile	Cys	Val	Lys	Val	Gly	Phe	Gln	Cys	Lys	Lys	Val	Ile
1				5					10					15	
Thr	Met	Asn	Leu	Leu	Glu	Lys	Ile	Ala	Leu	Val	Gly	Gln	Arg	Met	Lys
		20						25					30		
Ser	Glu	Gln	Ile	Ser	Leu	Lys	Glu	Ser	Leu	Met	Ala	Ser	Ser	Arg	Val
		35					40					45			
Ser	Val	Ser	Asp	Asp	Ser	Val	Asp	Gly	Val	Asp	Arg	Leu	Ile	Tyr	Asn
	50					55					60				
His	Cys	Leu	Asn	Lys	Lys	Asn	Leu	Ser	Asp	Phe	Phe	Gly	Lys	Ser	Arg
65					70					75					80
Val	Thr	Phe	Asn	Lys	Ile	Leu	Ser	Asp	Leu	Glu	Glu	Lys	Glu	Leu	Val
			85						90					95	
Gly	Ala	Pro	Ile	Tyr	Gln	Asn	Lys	Asn	His	Leu	Tyr	Thr	Arg	Trp	Asp
			100					105					110		
Val	Gln	Lys	Ile	Met	Asp	Ala	Leu	Gly	Tyr	Pro	Lys	Tyr	Arg	Asp	His
		115					120					125			

Tyr Phe Ser Arg Ala Ile Val Thr Gln Asn His Lys Gly Gly Thr Gly
 130 135 140
 Lys Ser Thr Thr Ser Val Ala Leu Ala Val Ala Ala Leu Asp Leu
 145 150 155 160
 Gln Leu Asn Ala Arg Val Leu Met Ile Glu Trp Asp Pro Gln Gly Ser
 165 170 175
 Ile Gly Ser Ser Met Ile Gln Ser Val Ser Glu Asp Asp Val Phe Leu
 180 185 190
 Thr Ala Ile Asp Ala Ile Leu Gly Ile Tyr Glu Glu Asn Ser Glu Tyr
 195 200 205
 Lys Lys Tyr Leu Asp Ser Gly Phe Ser Glu Glu Glu Ile Ile Thr Asn
 210 215 220
 Met Pro Phe Ser Thr His Leu Pro Asn Leu Asp Val Ile Thr Ala Phe
 225 230 235 240
 Pro Thr Asp Ala Arg Phe Lys Asp Lys Tyr Trp Gln Cys Ser Arg Glu
 245 250 255
 Glu Arg Thr Ser Leu Leu Leu Arg Phe Lys Glu Val Ile Leu Pro Val
 260 265 270
 Leu Lys Gln Asn Tyr Asp Leu Ile Ile Ile Asp Thr Pro Pro Glu Asp
 275 280 285
 Ser Pro Leu Ile Trp Ala Ala Asp Glu Ala Ala Asp Gly Ile Leu Val
 290 295 300
 Ala Val Ser Pro Arg Glu Tyr Asp Tyr Ala Ser Thr Thr Asp Phe Met
 305 310 315 320
 Leu Thr Ile Ser Glu Arg Cys Lys Gln Ser Pro Ser Lys Gly Asp Asn
 325 330 335
 Leu Lys Trp Phe Xaa Val Leu Ala Val Asn Val Asn Asp Lys Ser Pro
 340 345 350
 Tyr Glu Arg Ile Val Leu Asp Lys Leu Ile Lys Thr Val Gln Gly Pro
 355 360 365
 Phe
 370

<210> 5679

<211> 352

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (344)

<400> 5679

Arg Leu Leu Asp Pro Gly Asn Phe Ala Thr Asn Ile Gln Ala Gly Ala
 1 5 10 15
 Ser Phe Gly Tyr Lys Leu Leu Trp Val Val Val Trp Ala Asn Leu Met
 20 25 30
 Ala Met Leu Ile Gln Met Leu Ser Ala Lys Leu Gly Ile Ala Thr Gly
 35 40 45
 Lys Asn Leu Ala Glu Gln Ile Arg Asp His Tyr Pro Arg Pro Ala Val
 50 55 60
 Trp Phe Tyr Trp Val Gln Ala Glu Ile Ile Ala Met Ala Thr Asp Leu
 65 70 75 80
 Ala Glu Phe Ile Gly Ala Ala Ile Gly Phe Lys Leu Ile Leu Gly Val
 85 90 95
 Ser Leu Leu Gln Gly Ala Val Leu Thr Gly Ile Ala Thr Phe Leu Ile
 100 105 110
 Leu Met Leu Gln Arg Arg Gly Gln Lys Pro Leu Glu Lys Val Ile Gly
 115 120 125
 Gly Leu Leu Leu Phe Val Ala Ala Tyr Ile Val Glu Leu Ile Phe
 130 135 140

Ser Gln Pro Asn Leu Ala Gln Leu Thr Lys Gly Met Val Ile Pro Ser
 145 150 155 160
 Leu Pro Thr Ser Glu Ala Val Phe Leu Ala Gly Val Leu Gly Ala
 165 170 175
 Thr Ile Met Pro His Val Ile Tyr Leu His Ser Ser Leu Thr Gln Asn
 180 185 190
 Leu His Gly Gly Thr Ser Lys Glu Arg Tyr Ser Ala Ser Lys Trp Asp
 195 200 205
 Val Ala Ile Ala Met Thr Ile Ala Gly Phe Val Asn Leu Ala Met Met
 210 215 220
 Ala Thr Ala Ala Ala Ala Phe His Phe Asn Gly His Thr Gly Val Ala
 225 230 235 240
 Asp Leu Asp Gln Ala Tyr Leu Thr Leu Glu Pro Leu Leu Ser His Ala
 245 250 255
 Ala Ala Thr Ile Phe Gly Leu Ser Leu Val Ala Ala Gly Leu Ser Ser
 260 265 270
 Thr Val Val Gly Thr Leu Ala Gly Gln Val Val Met Gln Gly Phe Val
 275 280 285
 Arg Phe His Ile Pro Leu Trp Val Arg Arg Ser Val Thr Met Leu Pro
 290 295 300
 Ser Phe Val Val Ile Leu Met Gly Leu Asp Pro Thr Arg Ile Leu Val
 305 310 315 320
 Met Ser Gln Val Leu Leu Ser Phe Gly Ile Ala Leu Ala Leu Val Pro
 325 330 335
 Leu Leu Ile Phe Asp Val Ile Xaa Pro Gly Met Glu Gly Ser Ala Leu
 340 345 350

<210> 5680

<211> 357

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (354)

<400> 5680

Thr Asp Glu Arg Ile Leu Thr Met Ser Asn Val Phe Tyr Met Pro Pro
 1 5 10 15
 Val Thr Leu Met Gly Leu Asn Ala Ile Arg Leu Leu Gly Asp Glu Leu
 20 25 30
 Val Ser Arg Glu Leu Lys Lys Ala Leu Ile Val Thr Asp Arg Val Leu
 35 40 45
 Ala Asp Thr Gly Leu Val Asn Lys Leu Thr Asp Glu Leu Glu Ala His
 50 55 60
 Lys Ile Ser Tyr Ala Ile Phe Asp Gly Val Gln Pro Asn Pro Thr Glu
 65 70 75 80
 Lys Asn Ile Asp Asp Gly Leu Ala Leu Leu Ala Lys Ser Asn Ala Asp
 85 90 95
 Phe Val Ile Ser Phe Gly Gly Gly Ser Ser His Asp Thr Ala Lys Gly
 100 105 110
 Ile Ala Leu Val Ala Thr Asn Gly Gly His Ile Arg Asp Tyr Ser Lys
 115 120 125
 Gly Val His Leu Ser Lys Lys Pro Gln Leu Pro Leu Val Thr Val Asn
 130 135 140
 Thr Thr Ala Gly Thr Ala Ser Glu Met Thr Val Phe Ala Ile Val Thr
 145 150 155 160
 Asn Gln Glu Asp Glu Thr Lys Tyr Pro Val Val Asp Lys His Phe Thr
 165 170 175
 Pro Ile Ile Ala Val Asn Asp Ser Glu Leu Met Val Ala Met Pro Ala
 180 185 190

Phe Leu Thr Ala Thr Thr Gly Met Asp Ala Leu Thr His Ala Ile Glu
 195 200 205
 Ala Tyr Val Ser Thr Ala Ala Thr Pro Val Thr Asp Ala Cys Ala Ile
 210 215 220
 Lys Ala Ile Glu Ile Ile Val Asn Asn Leu Lys Asp Val Val Asp Asp
 225 230 235 240
 Gly Gln Asn Arg Glu Ala Arg Asp Ala Met Gln Tyr Gly Glu Tyr Leu
 245 250 255
 Ala Gly Met Ala Phe Ser Asn Ala Ser Leu Gly Tyr Val His Ser Met
 260 265 270
 Ala His Gln Leu Gly Gly Val Tyr Asn Leu Ser His Gly Leu Cys Asn
 275 280 285
 Ala Ile Leu Leu Gly Glu Val Ser Arg Phe Asn Ala Lys Lys Val Pro
 290 295 300
 Asp Arg Phe Val Glu Ile Ala Arg Ala Met Gly Ile Asp Val Ser Thr
 305 310 315 320
 Met Thr Gln Glu Gln Ala Ile Asn Ser Ala Ile Glu Ala Ile Glu Met
 325 330 335
 Leu Ser Gln Lys Val Gly Thr Asn Gln Arg Leu Ala Asp Arg Ala Ser
 340 345 350
 Arg Xaa Ser Pro
 355

<210> 5681

<211> 179

<212> PRT

<213> Enterobacter cloacae

<400> 5681

Gly Pro Lys Asp Leu Phe Pro Gln Lys Cys Asp Arg Val Met Ile Asp
 1 5 10 15
 Ala Ser Ser Val Val Ile Gly Asp Val Arg Met Ala Asp Asp Val Ser
 20 25 30
 Ile Trp Pro Leu Val Ala Ile Arg Gly Asp Val Asn Tyr Val Ala Ile
 35 40 45
 Gly Ala Arg Thr Asn Ile Gln Asp Gly Ser Val Leu His Val Thr His
 50 55 60
 Lys Ser Ser Tyr Asn Pro Glu Gly Asn Pro Leu Ile Ile Gly Glu Asp
 65 70 75 80
 Val Thr Val Gly His Lys Val Met Leu His Gly Cys Thr Ile Gly Asn
 85 90 95
 Arg Val Leu Val Gly Met Gly Ser Ile Leu Leu Asp Gly Val Ile Val
 100 105 110
 Glu Asp Asp Val Met Ile Gly Ala Gly Ser Leu Val Pro Gln Asn Lys
 115 120 125
 Arg Leu Glu Ser Gly Tyr Leu Tyr Leu Gly Ser Pro Ile Lys Gln Ile
 130 135 140
 Arg Pro Leu Lys Glu Ala Glu Ile Glu Gly Leu Lys Tyr Ser Ala Asn
 145 150 155 160
 Asn Tyr Val Lys Trp Lys Asn Asp Tyr Leu Asp Gln Asp Asn Gln Thr
 165 170 175
 Gln Pro

<210> 5682

<211> 66

<212> PRT

<213> Enterobacter cloacae

<400> 5682

Asn Ile Tyr Ala Tyr Asp Met Phe Tyr Gln Lys Gly Lys Thr Pro Phe


```

1           5           10           15
Leu Thr Trp Cys Glu Gln Gln Gly Ala Lys His Val Ala Asp Gly Leu
      20      25      30
Gly Met Leu Val Gly Gln Ala Ala His Ala Val Leu Leu Trp His Gly
      35      40      45
Val Leu Pro Ala Val Glu Pro Val Ile Glu Lys Leu Lys Lys Glu Leu
      50      55      60
Met Val
65

```

<210> 5683

<211> 119

<212> PRT

<213> Enterobacter cloacae

<400> 5683

```

Trp Ser Gly His Ala Gly Gly Ala Gly Gly Ser Cys Gly Ala Thr Leu
1           5           10           15
Ala Trp Arg Val Thr Cys Cys Arg Thr Gly Asp Arg Lys Ala Glu Lys
      20      25      30
Gly Thr Asp Gly Met Asn Gln Ala Ile His Phe Pro Asp Arg Glu Ile
      35      40      45
Trp Asp Glu Asn Lys Gln Ala Val Cys Phe Pro Val Leu Val His Gly
      50      55      60
Met Gln Leu Thr Cys Ala Ile Lys Gly Glu Thr Leu Leu Gln Arg Phe
      65      70      75      80
Gly Gly Ser Asp Pro Leu Ala Val Phe Cys Glu Asn Arg Trp Asp Leu
      85      90      95
Glu Glu Glu Ala Ser Asp Leu Ile Arg Val Gln Gln Glu Asp Asp Gln
      100      105      110
Gly Trp Val Trp Leu Ser
      115

```

<210> 5684

<211> 66

<212> PRT

<213> Enterobacter cloacae

<400> 5684

```

Ser Thr His Tyr Ala Gln Arg Lys Leu Gly Gly Arg Trp Gln Leu Arg
1           5           10           15
Gln Asn Phe Val Tyr Leu Val Ala Ile Phe Ala His Ile His Asn Leu
      20      25      30
Trp Ser Val Lys Ile Leu Ser Pro Gln Pro Val Ile Tyr Ala Leu Met
      35      40      45
Ala Leu Ala Leu Leu Ala Trp Arg Tyr Lys Lys Phe Arg Gln Trp Leu
      50      55      60
Arg
65

```

<210> 5685

<211> 174

<212> PRT

<213> Enterobacter cloacae

<400> 5685

```

Lys Gly Asp Asn Cys Ala Leu Arg Val Tyr Val Val Phe Tyr Pro Lys
1           5           10           15
Ile Ala Gly Asp Ser Gly Ile Met Ala Asp Lys Phe Gln Ile Leu Val
      20      25      30
Leu Asn Gly Pro Asn Leu Asn Met Leu Gly Thr Arg Glu Pro Glu Lys

```

[illegible][illegible]

<400> 5687
Leu Ile Asp Gln Pro Val Lys Val Thr Thr Glu Pro Asp Gly Ser Arg
1 5 10 15
Trp Val Glu Val His Glu Pro Leu Ser Arg Asn Arg Ala Glu Phe Glu
20 25 30

```
<210> 5688
<211> 114
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 5689
<211> 164
<212> PRT
<213> Enterobacter cloacae
```

<210> 5690
<211> 232

<212> PRT

<213> Enterobacter cloacae

<400> 5690

Trp	Pro	Ser	Met	Pro	Asp	Ser	Ser	Gly	Cys	Gly	Met	Pro	Tyr	Trp	Lys
1				5					10					15	
Arg	Val	Leu	Met	Met	Ile	Val	Lys	Phe	His	Pro	Arg	Gly	Arg	Gly	Gly
			20					25					30		
Gly	Gly	Gly	Pro	Val	Asp	Tyr	Leu	Leu	Gly	Lys	Asp	Arg	Gln	Arg	Asp
		35					40				45				
Gly	Ala	Ser	Val	Leu	Gln	Gly	Lys	Pro	Asp	Glu	Val	Arg	Glu	Leu	Ile
	50					55				60					
Asp	Ala	Ser	Pro	Tyr	Ala	Lys	Lys	Tyr	Thr	Ser	Gly	Val	Leu	Ser	Phe
65					70					75					80
Ala	Glu	Gln	Asp	Leu	Pro	Pro	Gly	Gln	Arg	Glu	Lys	Leu	Met	Ala	Ser
			85					90					95		
Phe	Glu	Arg	Val	Leu	Met	Pro	Gly	Leu	Asp	Lys	Asp	Gln	Tyr	Ser	Val
			100					105					110		
Leu	Trp	Val	Glu	His	Arg	Asp	Lys	Gly	Arg	Leu	Glu	Leu	Asn	Phe	Leu
		115					120					125			
Ile	Pro	Asn	Thr	Glu	Leu	Leu	Thr	Gly	Lys	Arg	Ile	Gln	Pro	Tyr	Tyr
	130					135					140				
Asp	Arg	Ala	Asp	Arg	Pro	Arg	Ile	Asp	Ala	Trp	Gln	Thr	Ile	Val	Asn
145					150				155						160
Gly	Arg	Leu	Gly	Leu	His	Asp	Pro	Asn	Ala	Pro	Glu	Asn	Arg	Arg	Val
			165					170						175	
Leu	Val	Ser	Pro	Ser	Ala	Leu	Pro	Glu	Ala	Lys	Gln	Glu	Ala	Ala	Gln
			180					185					190		
Ala	Ile	Thr	Ser	Gly	Leu	Leu	Ala	Leu	Ala	Ser	Ser	Gly	Glu	Leu	Lys
		195					200					205			
Thr	Arg	Gln	Asp	Val	Thr	Glu	Ala	Leu	Glu	Ser	Ala	Gly	Phe	Glu	Val
	210					215					220				
Val	Arg	Thr	Thr	Gln	Gly	Arg	Ile								
225					230										

<210> 5691

<211> 464

<212> PRT

<213> Enterobacter cloacae

<400> 5691

Arg	Met	Ala	Gly	Asn	Ile	Asp	Ile	Pro	Pro	Ile	Arg	Ala	Asp	Lys	Cys
1				5					10					15	
Leu	Phe	Phe	Pro	Thr	Ile	Asn	Arg	Glu	Asn	Ile	Met	Ser	Val	Val	Pro
			20					25					30		
Val	Ala	Asp	Val	Leu	Gln	Gly	Arg	Val	Ala	Val	Asp	Gln	Glu	Val	Thr
		35					40				45				
Val	Arg	Gly	Trp	Val	Arg	Thr	Arg	Arg	Asp	Ser	Lys	Ala	Gly	Ile	Ser
	50					55				60					
Phe	Leu	Ala	Val	Tyr	Asp	Gly	Ser	Cys	Phe	Asp	Pro	Val	Gln	Ala	Val
65				70					75						80
Ile	Asn	Asn	Ser	Leu	Pro	Asn	Tyr	Asn	Asp	Asp	Val	Leu	His	Leu	Thr
			85					90					95		
Thr	Gly	Cys	Ser	Val	Ile	Val	Thr	Gly	Val	Val	Val	Ala	Ser	Pro	Gly
			100					105				110			
Gln	Gly	Gln	Ser	Tyr	Glu	Ile	Gln	Ala	Thr	Ser	Val	Glu	Val	Thr	Gly
		115					120					125			
Trp	Val	Glu	Asp	Pro	Asp	Thr	Tyr	Pro	Met	Ala	Ala	Lys	Arg	His	Ser
	130					135				140					
Ile	Glu	Tyr	Leu	Arg	Glu	Val	Ala	Gln	Leu	Arg	Pro	Arg	Thr	Asn	Leu
145					150				155						160

```

Ile Gly Ala Val Ala Arg Val Arg His Thr Leu Ala Gln Ala Leu His
      165      170      175
Arg Phe Phe Asp Glu Gln Gly Tyr Phe Trp Val Ser Thr Pro Leu Ile
      180      185      190
Thr Ala Ser Asp Thr Glu Gly Ala Gly Glu Met Phe Arg Val Ser Thr
      195      200      205
Leu Asp Met Glu Asn Leu Pro Arg Thr Pro Glu Gly Lys Val Asp Tyr
      210      215      220
Asp Lys Asp Phe Phe Gly Lys Glu Ala Phe Leu Thr Val Ser Gly Gln
      225      230      235
Leu Asn Gly Glu Thr Tyr Ala Cys Ala Leu Ser Lys Ile Tyr Thr Phe
      245      250      255
Gly Pro Thr Phe Arg Ala Glu Asn Ser Asn Thr Ser Arg His Leu Ala
      260      265      270
Glu Phe Trp Met Leu Glu Pro Glu Val Ala Phe Ala Asp Leu Asn Asp
      275      280      285
Val Ala Gly Leu Ala Glu Ala Met Leu Lys Tyr Val Phe Lys Ala Val
      290      295      300
Leu Glu Glu Arg Ala Asp Asp Met Lys Phe Phe Ala Glu Arg Val Asp
      305      310      315
Asn Asp Ala Ile Ala Arg Leu Glu Arg Phe Val Ser Ala Asp Phe Ala
      325      330      335
Gln Val Asp Tyr Thr Asp Ala Val Ala Ile Leu Glu Lys Cys Gly Glu
      340      345      350
Lys Phe Glu Asn Pro Val Tyr Trp Gly Val Asp Leu Ser Ser Glu His
      355      360      365
Glu Arg Tyr Leu Ala Glu Lys His Phe Lys Ala Pro Val Val Val Lys
      370      375      380
Asn Tyr Pro Lys Asp Ile Lys Ala Phe Tyr Met Arg Leu Asn Glu Asp
      385      390      395
Gly Lys Thr Val Ala Ala Met Asp Val Leu Ala Pro Gly Ile Gly Glu
      405      410      415
Ile Ile Gly Gly Ser Gln Arg Glu Glu Arg Leu Asp Val Leu Asp Ala
      420      425      430
Arg Met Gln Glu Met Gly Leu Asn Pro Ala Asp Tyr Ser Trp Tyr Arg
      435      440      445
Asp Leu Ser Ser Pro Thr Gly Ala Gly Arg Ile Arg Ala Tyr Leu Thr
      450      455      460

```

<210> 5692

<211> 189

<212> PRT

<213> Enterobacter cloacae

<400> 5692

```

Thr Thr Val Leu Pro Ala Gly Leu Gly Glu Asn Asn Thr Ile Ser Gly
1      5      10      15
Leu Leu Phe Leu Trp Val Pro Thr Arg Lys Thr Asn Phe Ile His Gly
      20      25      30
Glu Pro Leu Arg Gly Val Ile Thr Gln Ser Glu Asp Phe Arg Met Ala
      35      40      45
Lys Lys Val Gln Ala Tyr Val Lys Leu Gln Val Ala Ala Gly Met Ala
      50      55      60
Asn Pro Ser Pro Pro Val Gly Pro Ala Leu Gly Gln Gln Gly Val Asn
      65      70      75
Ile Met Glu Phe Cys Lys Ala Phe Asn Ala Lys Thr Glu Ser Met Glu
      85      90      95
Lys Gly Leu Pro Ile Pro Val Val Ile Thr Val Tyr Ala Asp Arg Ser
      100      105      110
Phe Thr Phe Val Thr Lys Thr Pro Pro Ala Ala Val Leu Leu Lys Lys
      115      120      125

```

Ala	Ala	Gly	Ile	Lys	Ser	Gly	Ser	Gly	Lys	Pro	Asn	Lys	Asp	Lys	Val
	130					135					140				
Gly	Lys	Ile	Ser	Arg	Ala	Gln	Leu	Gln	Glu	Ile	Ala	Gln	Thr	Lys	Ala
145					150					155					160
Ala	Asp	Met	Thr	Gly	Ser	Asp	Ile	Glu	Ala	Met	Thr	Arg	Ser	Ile	Glu
				165					170					175	
Gly	Thr	Ala	Arg	Ser	Met	Gly	Leu	Val	Val	Glu	Asp				
			180					185							

<210> 5693

<211> 236

<212> PRT

<213> Enterobacter cloacae

<400> 5693

Glu	Met	Ala	Lys	Leu	Thr	Lys	Arg	Met	Ser	Val	Ile	Arg	Asp	Lys	Val
1				5					10					15	
Asp	Ala	Thr	Lys	Gln	Tyr	Asp	Ile	Asn	Glu	Ala	Ile	Ala	Leu	Leu	Lys
			20				25						30		
Glu	Leu	Ala	Thr	Ala	Lys	Phe	Val	Glu	Ser	Val	Asp	Val	Ala	Val	Asn
		35				40						45			
Leu	Gly	Ile	Asp	Ala	Arg	Lys	Ser	Asp	Gln	Asn	Val	Arg	Gly	Ala	Thr
	50					55					60				
Val	Leu	Pro	His	Gly	Thr	Gly	Arg	Ser	Val	Arg	Val	Thr	Val	Phe	Ala
65					70					75					80
Gln	Gly	Ala	Asn	Ala	Glu	Ser	Ala	Lys	Ala	Ala	Gly	Ala	Glu	Leu	Val
			85						90					95	
Gly	Met	Glu	Asp	Leu	Ala	Asp	Gln	Ile	Lys	Lys	Gly	Glu	Met	Asn	Phe
			100					105					110		
Asp	Val	Val	Ile	Ala	Ser	Pro	Asp	Ala	Met	Arg	Val	Val	Gly	Gln	Leu
		115					120					125			
Gly	Gln	Val	Leu	Gly	Pro	Arg	Gly	Leu	Met	Pro	Asn	Pro	Lys	Val	Gly
	130					135					140				
Thr	Val	Thr	Pro	Asn	Val	Ala	Glu	Ala	Val	Lys	Asn	Ala	Lys	Ala	Gly
145					150						155				160
Gln	Val	Arg	Tyr	Arg	Asn	Asp	Lys	Asn	Gly	Ile	Ile	His	Thr	Thr	Ile
			165						170					175	
Gly	Lys	Val	Asp	Phe	Asp	Ala	Asp	Lys	Leu	Lys	Glu	Asn	Leu	Glu	Ala
			180					185					190		
Leu	Leu	Val	Ala	Leu	Lys	Lys	Ala	Lys	Pro	Thr	Gln	Ala	Lys	Gly	Val
		195					200					205			
Tyr	Ile	Lys	Lys	Val	Ser	Ile	Ser	Thr	Thr	Met	Gly	Ala	Gly	Val	Ala
	210					215					220				
Val	Asp	Gln	Ala	Gly	Leu	Ser	Ala	Ala	Ala	Asn					
225					230					235					

<210> 5694

<211> 105

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (98)

<400> 5694

Ser	Glu	Phe	Arg	Asn	Met	Ser	Ser	Gly	Lys	His	Pro	Gly	Ala	Lys	Leu
1				5					10					15	
Met	Ala	Leu	Asn	Leu	Gln	Asp	Lys	Gln	Ala	Ile	Val	Ala	Glu	Val	Ser
			20					25					30		
Glu	Val	Ala	Lys	Gly	Ala	Leu	Ser	Ala	Val	Val	Ala	Asp	Ser	Arg	Gly

```
<210> 5695
<211> 128
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 5696
<211> 200
<212> PRT
<213> Enterobacter cloacae
```

<400>	5696															
Gln	Arg	Asn	Tyr	Gln	Val	Ile	Trp	Ser	Ser	Thr	Met	Ala	Lys	Leu	His	
1				5					10					15		
Asp	Tyr	Tyr	Lys	Asp	Glu	Val	Val	Asn	Lys	Leu	Met	Thr	Glu	Phe	Asn	
			20					25					30			
Tyr	Asn	Ser	Val	Met	Gln	Val	Pro	Arg	Val	Glu	Lys	Ile	Thr	Leu	Asn	
			35				40					45				
Met	Gly	Val	Gly	Glu	Ala	Ile	Ala	Asp	Lys	Lys	Leu	Leu	Asp	Asn	Ala	
	50					55					60					
Ala	Ala	Asp	Leu	Thr	Ala	Ile	Ser	Gly	Gln	Lys	Pro	Leu	Ile	Thr	Lys	
65					70				75						80	
Ala	Arg	Lys	Ser	Val	Ala	Gly	Phe	Lys	Ile	Arg	Gln	Gly	Tyr	Pro	Ile	
				85					90					95		
Gly	Cys	Lys	Val	Thr	Leu	Arg	Gly	Glu	Arg	Met	Trp	Glu	Phe	Leu	Glu	
			100					105					110			
Arg	Leu	Ile	Thr	Ile	Ala	Val	Pro	Arg	Ile	Arg	Asp	Phe	Arg	Gly	Leu	
		115					120					125				
Ser	Ala	Lys	Ser	Phe	Asp	Gly	Arg	Gly	Asn	Tyr	Ser	Met	Gly	Val	Arg	
	130					135				140						
Glu	Gln	Ile	Ile	Phe	Pro	Glu	Ile	Asp	Tyr	Asp	Lys	Val	Asp	Arg	Val	
145					150				155						160	
Arg	Gly	Leu	Asp	Ile	Thr	Ile	Thr	Thr	Thr	Gly	Lys	Ser	Asp	Glu	Lys	
				165					170					175		

Gly Arg Ala Leu Leu Ala Ala Phe Glu Phe Pro Val Pro Gln Val Lys
 180 185 190
 Val Arg Phe Thr Glu Met Ala
 195 200

<210> 5697

<211> 119

<212> PRT

<213> Enterobacter cloacae

<400> 5697

Lys Leu Ser Leu Trp His Gln Lys Tyr Ser Lys Glu Arg Ile Met Ala
 1 5 10 15
 Ala Lys Ile Arg Arg Asp Asp Glu Val Ile Val Leu Thr Gly Lys Asp
 20 25 30
 Lys Gly Lys Arg Gly Lys Val Lys Asn Val Leu Ser Ser Gly Lys Leu
 35 40 45
 Val Val Glu Gly Ile Asn Leu Val Lys Lys His Gln Lys Pro Val Pro
 50 55 60
 Ala Leu Asn Gln Pro Gly Gly Ile Val Glu Lys Glu Ala Ala Ile Gln
 65 70 75 80
 Val Ser Asn Val Ala Ile Phe Asn Ala Ala Thr Gly Lys Ala Asp Arg
 85 90 95
 Val Gly Phe Arg Phe Glu Asp Gly Lys Lys Val Arg Phe Phe Lys Ser
 100 105 110
 Asn Ser Glu Thr Ile Lys
 115

<210> 5698

<211> 352

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (278)

<220>

<221> UNSURE

<222> (352)

<400> 5698

Leu Arg Leu Ala Leu Gly Gly Val Thr His Thr Asp Ser Phe Leu His
 1 5 10 15
 Leu Lys Ile Lys Gly Asp Met Ile Ala Arg Ile Phe Ser Phe Leu Ser
 20 25 30
 His Arg Ser Val Arg Val Phe Ala Pro Met Lys Thr Met Lys Ile Ala
 35 40 45
 Val Ser Arg Glu Leu Val Ser Lys Val Ser Thr His Arg Glu Lys Val
 50 55 60
 Met Leu Asp Asn Thr Asp Phe Thr Asp Val Ala Ala Val Val Ile Thr
 65 70 75 80
 Val Val Glu Ser Tyr Ser Gly Ile Leu Ala Leu Leu Lys Arg Thr Gly
 85 90 95
 Phe Gln Leu Pro Val Phe Met Phe Ser Thr Glu Pro Gly Glu Val Pro
 100 105 110
 Glu Gly Val Thr Ala Ile Ile Ser Gly Lys Ala Gln Glu Leu Leu Glu
 115 120 125
 Leu Glu Ser Ala Ala Cys Arg Tyr Glu Glu Asn Leu Leu Pro Pro Phe
 130 135 140
 Phe Asp Thr Leu Ser Gln Tyr Val Ala Met Gly Asn Ser Thr Phe Ala

145					150					155				160
Cys	Pro	Gly	His	Gln	His	Gly	Ala	Phe	Phe	Lys	Lys	His	Pro	Ala Gly
				165					170					175
Arg	Gln	Phe	Tyr	Asp	Phe	Phe	Gly	Glu	Asn	Val	Phe	Arg	Ala	Asp Met
			180					185					190	
Cys	Asn	Ala	Asp	Val	Lys	Leu	Gly	Asp	Leu	Leu	Ile	His	Glu	Gly Ser
		195					200					205		
Ala	Lys	His	Ala	Gln	Lys	Phe	Ala	Ala	Lys	Val	Phe	Asn	Ala	Asp Lys
	210					215					220			
Thr	Tyr	Phe	Val	Leu	Asn	Gly	Thr	Ser	Ala	Ala	Asn	Lys	Val	Val Thr
225					230					235				240
Asn	Ala	Leu	Leu	Thr	Arg	Gly	Asp	Leu	Val	Leu	Phe	Asp	Arg	Asn Asn
				245					250					255
His	Lys	Ser	Asn	His	His	Gly	Ala	Leu	Ile	Gln	Ala	Gly	Ala	Thr Pro
			260				265						270	
Val	Tyr	Leu	Glu	Ala	Xaa	Arg	Asn	Pro	Phe	Gly	Phe	Ile	Gly	Gly Ile
		275					280					285		
Asp	Glu	His	Cys	Phe	Asp	Glu	Ala	Trp	Leu	Arg	Glu	Leu	Ile	Arg Asp
	290					295					300			
Val	Ala	Pro	Gln	Lys	Ala	Ala	Glu	Ala	Arg	Pro	Phe	Pro	Ser	Gly Asp
305					310					315				320
His	Ser	Ala	Pro	His	Leu	Pro	Met	Ala	Arg	Ile	Tyr	Asn	Ala	Arg Ser
				325					330					335
Gly	Glu	Ser	Thr	Asn	Ile	Arg	Ala	Pro	Leu	Arg	Leu	Thr	Ser	Leu Xaa
			340					345					350	

<210> 5699

<211> 177

<212> PRT

<213> Enterobacter cloacae

<400> 5699

Gln	Glu	Leu	Asn	Val	Val	Ile	Gly	Pro	Phe	Ile	Asn	Ala	Gly	Ala	Val
1			5					10					15		
Leu	Leu	Gly	Gly	Val	Leu	Gly	Ala	Val	Leu	Ser	Gln	Arg	Leu	Pro	Glu
		20					25					30			
Arg	Ile	Arg	Val	Ser	Met	Pro	Ser	Ile	Phe	Gly	Leu	Ala	Ser	Leu	Gly
	35					40					45				
Ile	Gly	Ile	Leu	Leu	Val	Val	Lys	Cys	Ala	Asn	Leu	Pro	Val	Met	Val
	50				55					60					
Leu	Ala	Thr	Leu	Leu	Gly	Ala	Leu	Ile	Gly	Glu	Phe	Cys	Tyr	Leu	Glu
65			70					75						80	
Lys	Gly	Ile	Asn	His	Ala	Val	Gly	Lys	Ala	Lys	Asn	Leu	Ile	Ala	Arg
			85					90					95		
Pro	Gly	Lys	Ala	Lys	His	Gly	Thr	His	Glu	Ser	Phe	Ile	Gln	Asn	Tyr
	100					105						110			
Val	Ala	Ile	Ile	Ile	Leu	Phe	Cys	Ala	Ser	Gly	Thr	Gly	Ile	Phe	Gly
	115						120				125				
Ser	Met	Gln	Glu	Gly	Met	Thr	Gly	Asp	Pro	Ser	Ile	Leu	Ile	Ala	Lys
	130				135					140					
Ala	Phe	Leu	Asp	Phe	Phe	Thr	Ala	Thr	Ile	Phe	Ala	Thr	Thr	Leu	Gly
145				150					155					160	
Ile	Ala	Val	Ala	Ala	Ser	Leu	His	His	Gly	Pro	Glu	Gly	Pro	Arg	Met
			165						170					175	

Arg

<210> 5700

<211> 172

<212> PRT

<213> Enterobacter cloacae

<400> 5700

```

Ile Ile Thr Ser Met Arg Ser Asn Arg Phe Glu Ala Phe Ala Met Leu
1      5      10      15
Leu Ser Leu Pro Phe Leu Leu Ile Tyr Phe Ala Leu Ser Ala Leu Leu
20      25      30
Val Arg Thr Asp Ile Arg Thr Gly Leu Leu Pro Asp Lys Phe Leu Cys
35      40      45
Pro Leu Leu Trp Thr Gly Leu Leu Tyr Gln Leu Cys Leu His Pro Asp
50      55      60
Phe Leu Pro Ser Ala Val Val Gly Ala Met Ala Gly Tyr Ala Gly Phe
65      70      75      80
Ala Val Ile Tyr Trp Gly Tyr Arg Leu Ile Cys Arg Arg Glu Gly Met
85      90      95
Gly Tyr Gly Asp Ile Lys Tyr Leu Ala Ala Leu Gly Ala Trp His Gly
100     105     110
Trp Cys Val Leu Pro Val Leu Ala Leu Val Ala Ala Leu Met Ala Leu
115     120     125
Leu Tyr Leu Val Ala Phe Ser Leu Phe Thr Pro Asp Lys Gln Ala Leu
130     135     140
Lys Asn Pro Leu Pro Phe Gly Pro Phe Leu Ala Ala Gly Leu Cys
145     150     155     160
Val Gly Trp Glu Ser Leu Ile Asn Phe Pro Leu
165     170

```

<210> 5701

<211> 173

<212> PRT

<213> Enterobacter cloacae

<400> 5701

```

Pro Asp Leu Arg Phe Asn Glu Trp Lys Arg Arg Asp Tyr Ile Met Lys
1      5      10      15
Gly Asp Val Lys Ile Ile Ser Tyr Leu Asn Lys Leu Leu Gly Asn Glu
20      25      30
Leu Val Ala Ile Asn Gln Tyr Phe Leu His Ala Arg Met Phe Lys Asn
35      40      45
Trp Gly Leu Thr Arg Leu Asn Asp Val Glu Tyr His Glu Ser Ile Asp
50      55      60
Glu Met Lys His Ala Asp Lys Tyr Ile Glu Arg Ile Leu Phe Leu Glu
65      70      75      80
Gly Ile Pro Asn Leu Gln Asp Leu Gly Lys Leu Gly Ile Gly Glu Asp
85      90      95
Val Glu Glu Met Leu Arg Ser Asp Leu Arg Leu Glu Leu Glu Gly Ala
100     105     110
Lys Asp Leu Arg Glu Ala Ile Ala Tyr Ala Asp Ser Val His Asp Tyr
115     120     125
Val Ser Arg Asp Met Met Ile Gln Ile Leu Ala Asp Glu Glu Gly His
130     135     140
Ile Asp Trp Leu Glu Thr Glu Leu Asp Leu Ile Ser Lys Ile Gly Leu
145     150     155     160
Gln Asn Tyr Leu Gln Ser Gln Ile Lys Val Glu Ser
165     170

```

<210> 5702

<211> 391

<212> PRT

<213> Enterobacter cloacae

<400> 5702

```

Ser Ala Thr Lys Ser Gly Thr Gly Thr Gly Arg Thr Thr Met Ile Lys

```

1				5					10				15
Ser	Thr	Asp	Arg	Lys	Leu	Val	Val	Gly	Leu	Glu	Ile	Gly	Thr
			20					25				30	Ala
Val	Ala	Ala	Leu	Val	Gly	Glu	Val	Leu	Pro	Asp	Gly	Met	Val
		35					40				45	Asn	Ile
Ile	Gly	Val	Gly	Ser	Cys	Pro	Ser	Arg	Gly	Met	Asp	Lys	Gly
	50					55				60			Val
Asn	Asp	Leu	Glu	Ser	Val	Val	Lys	Cys	Val	Gln	Arg	Ala	Ile
65					70					75			Asp
Ala	Glu	Leu	Met	Ala	Asp	Cys	Gln	Ile	Ser	Ser	Val	Tyr	Leu
				85					90				Ala
Ser	Gly	Lys	His	Ile	Ser	Cys	Gln	Asn	Glu	Ile	Gly	Met	Val
			100					105					Pro
Ser	Glu	Glu	Glu	Val	Thr	Gln	Glu	Asp	Val	Glu	Asn	Val	Val
		115					120				125	His	Thr
Ala	Lys	Ser	Val	Arg	Val	Arg	Asp	Glu	His	Arg	Val	Leu	His
	130					135				140			Val
Pro	Gln	Glu	Tyr	Ala	Ile	Asp	Tyr	Gln	Glu	Gly	Ile	Lys	Asn
145					150					155			Pro
Gly	Leu	Ser	Gly	Val	Arg	Met	Gln	Ala	Lys	Val	His	Leu	Ile
				165					170				Thr
His	Asn	Asp	Met	Ala	Lys	Asn	Ile	Val	Lys	Ala	Val	Glu	Arg
			180					185				190	Cys
Leu	Lys	Val	Asp	Gln	Leu	Ile	Phe	Ala	Gly	Leu	Ala	Ala	Ser
		195					200				205		Tyr
Val	Leu	Thr	Glu	Asp	Glu	Arg	Glu	Leu	Gly	Val	Cys	Val	Val
	210				215					220			Asp
Gly	Gly	Gly	Thr	Met	Asp	Met	Ala	Val	Tyr	Thr	Gly	Gly	Ala
225					230					235			Leu
His	Thr	Lys	Val	Ile	Pro	Tyr	Ala	Gly	Asn	Val	Val	Thr	Ser
			245						250				Asp
Ala	Tyr	Ala	Phe	Gly	Thr	Pro	Pro	Ser	Asp	Ala	Glu	Ala	Ile
			260					265					Lys
Arg	His	Gly	Cys	Ala	Leu	Gly	Ser	Ile	Val	Gly	Lys	Asp	Glu
		275					280					285	Ser
Glu	Val	Pro	Ser	Val	Gly	Gly	Arg	Pro	Pro	Arg	Ser	Leu	Gln
	290					295					300		Arg
Thr	Leu	Ala	Glu	Val	Ile	Glu	Pro	Arg	Tyr	Thr	Glu	Leu	Leu
305					310					315			Asn
Val	Asn	Glu	Glu	Ile	Leu	Gln	Leu	Gln	Glu	Gln	Leu	Arg	Gln
				325					330				Gln
Val	Lys	His	His	Leu	Ala	Ala	Gly	Ile	Val	Leu	Thr	Gly	Gly
			340					345					Ala
Gln	Ile	Glu	Gly	Leu	Ala	Ala	Cys	Ala	Gln	Arg	Val	Phe	His
		355					360					365	Thr
Val	Arg	Ile	Gly	Ala	Pro	Leu	Asn	Ile	Thr	Gly	Leu	Thr	Asp
	370					375					380		Phe
Thr	Arg	Gly	Gly	Val	Lys	Arg							Leu
385					390								

<210> 5703

<211> 85

<212> PRT

<213> Enterobacter cloacae

<400> 5703

Ala	Arg	Arg	Ser	Trp	Gln	Leu	Thr	Leu	Thr	Asn	Gly	Ile	Lys	Leu	Asn
1			5					10					15		
Leu	Gly	Arg	Gly	Asp	Thr	Met	Lys	Arg	Leu	Ala	Arg	Phe	Val	Glu	Leu
		20						25					30		
Tyr	Pro	Val	Leu	Gln	Gln	Gln	Ala	Gln	Thr	Asp	Gly	Lys	Arg	Ile	Ser

35 40 45
 Tyr Val Asp Leu Arg Tyr Asp Ser Gly Ala Ala Val Gly Trp Glu Pro
 50 55 60
 Ala Pro Val Glu Glu Pro Asn Gln Gln Gln Asn Gln Ala Gln Val Gln
 65 70 75 80
 Ala Glu Gln Gln
 85

<210> 5704

<211> 219

<212> PRT

<213> Enterobacter cloacae

<400> 5704

Ile Tyr Leu Glu Val Phe Met Ala Val Ala Ala Asn Lys Arg Ser Val
 1 5 10 15
 Met Thr Leu Phe Ser Gly Pro Thr Asp Ile Tyr Ser His Gln Val Arg
 20 25 30
 Ile Val Leu Ala Glu Lys Gly Val Ser Phe Glu Ile Glu His Val Glu
 35 40 45
 Lys Asp Asn Pro Pro Gln Asp Leu Ile Asp Leu Asn Pro Ser Gln Ser
 50 55 60
 Val Pro Thr Leu Val Asp Arg Glu Leu Thr Leu Trp Glu Ser Arg Ile
 65 70 75 80
 Ile Met Glu Tyr Leu Asp Glu Arg Phe Pro His Pro Pro Leu Met Pro
 85 90 95
 Val Tyr Pro Val Ala Arg Gly Glu Ser Arg Leu Tyr Met Gln Arg Ile
 100 105 110
 Glu Lys Asp Trp Tyr Ser Leu Met Asn Val Ile Val Asn Gly Ser Ser
 115 120 125
 Ser Glu Ala Asp Ala Ala Arg Lys Gln Leu Arg Glu Glu Leu Leu Ala
 130 135 140
 Ile Ala Pro Val Phe Gly Gln Lys Pro Phe Phe Leu Ser Asp Glu Phe
 145 150 155 160
 Ser Leu Val Asp Cys Tyr Leu Ala Pro Leu Leu Trp Arg Leu Pro Thr
 165 170 175
 Leu Gly Val Glu Phe Ser Gly Pro Gly Ala Lys Glu Leu Lys Gly Tyr
 180 185 190
 Met Thr Arg Val Phe Glu Arg Asp Ser Phe Leu Ala Ser Leu Thr Glu
 195 200 205
 Pro Glu Arg Glu Met Arg Leu Gly Arg Gly
 210 215

<210> 5705

<211> 72

<212> PRT

<213> Enterobacter cloacae

<400> 5705

Asn Ala Ser Arg Pro Arg Leu Met Thr Val Glu Met Ser Gln Leu Ser
 1 5 10 15
 Pro Arg Arg Pro Tyr Met Leu Arg Ala Phe Tyr Glu Trp Leu Leu Asp
 20 25 30
 Asn Gln Leu Thr Pro His Leu Val Val Asp Val Thr Leu Pro Gly Val
 35 40 45
 Leu Val Pro Met Glu Tyr Ala Arg Asp Gly Gln Ser Pro Arg Arg
 50 55 60
 Trp Gln Asp Pro Arg Leu Ala Leu
 65 70

<210> 5706

<211> 111
 <212> PRT
 <213> Enterobacter cloacae

<400> 5706

Tyr	Thr	Glu	Ile	Ala	Phe	Arg	Lys	Thr	Cys	Ile	Glu	Pro	Gln	Ser	Arg
1				5					10					15	
Cys	Leu	Leu	Thr	Arg	Ile	Lys	Gly	Val	Ile	Met	Glu	Lys	Asn	Ser	Glu
			20					25					30		
Val	Ile	Gln	Thr	His	Pro	Leu	Val	Gly	Trp	Asp	Ile	Ser	Thr	Val	Asp
		35					40					45			
Ser	Tyr	Asp	Ala	Leu	Met	Leu	Arg	Leu	His	Tyr	Gln	Thr	Pro	Asn	Gln
	50					55					60				
Leu	Asn	Arg	Asp	Glu	Ala	Glu	Val	Gly	Gln	Thr	Leu	Trp	Leu	Thr	Thr
65					70				75						80
Asp	Val	Ala	Arg	Gln	Phe	Ile	Ser	Ile	Leu	Glu	Ala	Gly	Ile	Ala	Lys
				85					90					95	
Ile	Glu	Ser	Gly	Asp	Tyr	Gln	Glu	Asn	Glu	Tyr	Lys	Arg	His		
			100					105					110		

<210> 5707
 <211> 233
 <212> PRT
 <213> Enterobacter cloacae

<400> 5707

Gln	Ser	Val	Ser	Lys	Glu	Lys	Pro	Met	Lys	Tyr	Asp	Leu	Ile	Ile	Ile
1				5					10					15	
Gly	Ser	Gly	Ser	Val	Gly	Ser	Ala	Ala	Gly	Tyr	Tyr	Ala	Thr	Gln	Ala
			20					25					30		
Gly	Leu	Asn	Val	Leu	Met	Ile	Asp	Ala	His	Arg	Pro	Pro	His	Ser	Glu
		35					40					45			
Gly	Ser	His	His	Gly	Asp	Thr	Arg	Leu	Ile	Arg	His	Ala	Tyr	Gly	Glu
	50					55					60				
Gly	Glu	Arg	Tyr	Val	Pro	Leu	Val	Leu	Arg	Ala	Gln	Thr	Leu	Trp	Asp
65					70				75						80
Glu	Leu	Ala	Ala	Leu	Thr	Glu	Glu	Arg	Ile	Phe	Glu	Arg	Thr	Gly	Val
				85					90					95	
Val	Asn	Leu	Gly	Pro	Ala	Ser	Ser	Thr	Phe	Leu	Ala	Thr	Val	Glu	Glu
			100					105					110		
Ser	Ala	Lys	Ala	Tyr	Arg	Leu	Asp	Val	Glu	Arg	Leu	Asp	Ala	Asn	Gly
		115					120					125			
Ile	Met	Ala	Arg	Trp	Pro	Glu	Ile	Ser	Val	Pro	Glu	Asp	Tyr	Ile	Gly
	130					135					140				
Leu	Phe	Glu	Ala	Asn	Ser	Gly	Val	Leu	His	Ser	Glu	Thr	Ala	Ile	Asn
145				150						155					160
Thr	Trp	Ile	Asp	Leu	Ala	Ala	Lys	Ala	Gly	Cys	Ala	Gln	Leu	Phe	Asn
			165						170					175	
Cys	Pro	Val	Thr	Gly	Ile	Thr	His	His	Ala	Glu	Gly	Ser	Thr	Val	Thr
			180					185					190		
Thr	Ser	Glu	Gly	Glu	Tyr	Thr	Ala	Thr	Arg	Leu	Leu	Val	Ser	Ala	Gly
		195					200					205			
Thr	Trp	Val	Thr	Lys	Leu	Leu	Pro	Asp	Leu	Pro	Ile	His	Pro	Val	Arg
	210					215					220				
Lys	Val	Phe	Ser	Trp	Val	Pro	Val								
225						230									

<210> 5708
 <211> 158
 <212> PRT
 <213> Enterobacter cloacae

<400> 5708

His Leu Phe Asp Val Ala Leu Lys Phe Arg Val Leu Ile Leu Tyr Glu
 1 5 10 15
 Val Val Leu Leu Arg Val Tyr Glu Ala Lys Ala Lys Thr Arg Ser Tyr
 20 25 30
 Leu Met Ala Thr Val Asn Gln Leu Val Arg Lys Pro Arg Ala Arg Lys
 35 40 45
 Val Ala Lys Ser Asn Val Pro Ala Leu Glu Ala Cys Pro Gln Lys Arg
 50 55 60
 Gly Val Cys Thr Arg Val Tyr Thr Thr Thr Pro Lys Lys Pro Asn Ser
 65 70 75 80
 Ala Leu Arg Lys Val Cys Arg Val Arg Leu Thr Asn Gly Phe Glu Val
 85 90 95
 Thr Ser Tyr Ile Gly Gly Glu Gly His Asn Leu Gln Glu His Ser Val
 100 105 110
 Ile Leu Ile Arg Gly Gly Arg Val Lys Asp Leu Pro Gly Val Arg Tyr
 115 120 125
 His Thr Val Arg Gly Ala Leu Asp Cys Ser Gly Val Lys Asp Arg Lys
 130 135 140
 Gln Ala Arg Ser Lys Tyr Gly Val Lys Arg Pro Lys Ala
 145 150 155

<210> 5709

<211> 137

<212> PRT

<213> Enterobacter cloacae

<400> 5709

Gln Arg Ser Asn Pro Met Pro Arg Arg Arg Val Ile Gly Gln Arg Lys
 1 5 10 15
 Ile Leu Pro Asp Pro Lys Phe Gly Ser Glu Leu Leu Ala Lys Phe Val
 20 25 30
 Asn Ile Leu Met Val Asp Gly Lys Lys Ser Thr Ala Glu Ala Ile Val
 35 40 45
 Tyr Ser Ala Leu Glu Thr Leu Ala Gln Arg Ser Gly Lys Asn Glu Leu
 50 55 60
 Glu Ala Phe Glu Val Ala Leu Asp Asn Val Arg Pro Thr Val Glu Ile
 65 70 75 80
 Lys Ser Arg Arg Val Gly Gly Ser Thr Tyr Gln Val Pro Val Glu Val
 85 90 95
 Arg Pro Val Arg Arg Asn Ala Leu Ala Met Arg Trp Ile Val Glu Ala
 100 105 110
 Ala Arg Lys Arg Gly Asp Lys Ser Met Ala Leu Arg Leu Ala Asn Glu
 115 120 125
 Leu Ser Asp Ala Ala Glu Asn Lys Gly
 130 135

<210> 5710

<211> 113

<212> PRT

<213> Enterobacter cloacae

<400> 5710

Thr Phe Val Phe Arg Ser Ile Arg Lys Phe Val Arg Gln Thr Gln Ser
 1 5 10 15
 His Gly Phe Ile Thr Ala Phe Thr Ser Phe Asn Asp Pro Thr His
 20 25 30
 Cys Gln Ser Ile Thr Thr Asn Arg Thr Asn Phe Asn Trp Asn Leu Ile
 35 40 45
 Ser Arg Thr Thr Asn Ala Ala Arg Leu Asn Phe Tyr Ser Arg Ala His

50					55					60					
Val	Val	Glu	Ser	Asp	Phe	Glu	Gly	Phe	Gln	Phe	Ile	Phe	Thr	Arg	Thr
65					70					75					80
Leu	Ser	Gln	Gly	Leu	Gln	Arg	Ala	Val	Tyr	Asp	Cys	Phe	Cys	Gly	Arg
				85					90					95	
Phe	Phe	Thr	Ile	Tyr	His	Gln	Asp	Ile	Tyr	Lys	Phe	Cys	Gln	Gln	Phe
			100					105					110		

<210> 5711
 <211> 185
 <212> PRT
 <213> Enterobacter cloacae

<220>
 <221> UNSURE
 <222> (165)

<400> 5711

Lys	Leu	Tyr	Ala	Arg	Glu	Ala	Phe	Met	Pro	Arg	Arg	Gln	Ile	Leu	Ser
1				5					10					15	
Ser	Glu	Glu	Gln	Glu	Arg	Leu	Leu	Val	Ile	Pro	Asp	Asp	Glu	Ile	Ile
			20					25					30		
Leu	Thr	Arg	Met	Cys	Phe	Leu	Asn	Glu	Pro	Asp	Ile	Ala	Leu	Ile	Asn
			35				40					45			
Lys	His	Arg	Arg	Pro	Ala	Asn	Arg	Leu	Gly	Phe	Ala	Val	Leu	Leu	Cys
	50					55				60					
Tyr	Leu	Arg	Gly	Pro	Gly	Phe	Ile	Pro	Asp	Lys	Ser	Ser	Ala	Pro	His
65					70					75					80
Asn	Gly	Val	Val	Ser	Arg	Val	Ala	Ser	Arg	Leu	Lys	Leu	Gln	Pro	Asp
				85					90					95	
Leu	Trp	Pro	Glu	Tyr	Ala	Ser	Arg	Glu	Gln	Thr	Arg	Trp	Glu	His	Leu
			100					105					110		
Thr	Glu	Leu	Tyr	Arg	Tyr	Leu	Glu	Leu	Ser	Pro	Phe	Ser	Arg	Ser	Met
			115				120					125			
Gln	Lys	Glu	Cys	Ile	Arg	His	Leu	Gln	Pro	Tyr	Ala	Met	Arg	Thr	Asp
	130					135					140				
Lys	Arg	Phe	Met	Leu	Ala	Gly	Arg	Asn	Ala	His	Leu	Gly	Tyr	Ile	Asn
145					150					155					160
Asn	Asn	Val	Tyr	Xaa	Pro	Leu	Leu	Leu	Lys	Val	Ile	Gln	Thr	Asp	Ala
				165					170					175	
Leu	Pro	Lys	Ser	Phe	Thr	Leu	Arg								
			180												185

<210> 5712
 <211> 212
 <212> PRT
 <213> Enterobacter cloacae

<400> 5712

Phe	Arg	Thr	His	Val	Ile	Ile	Arg	Thr	Ser	Ile	Ser	Tyr	Gly	Lys	Phe
1				5					10					15	
Pro	Met	Ser	Arg	Val	Phe	Ala	Tyr	Cys	Arg	Val	Ser	Thr	Leu	Glu	Gln
			20					25					30		
Thr	Thr	Glu	Asn	Gln	Arg	Arg	Glu	Ile	Glu	Ala	Ala	Gly	Phe	Ala	Ile
			35				40					45			
Arg	Ser	Gln	Arg	Leu	Ile	Glu	Glu	His	Ile	Ser	Gly	Ser	Val	Ala	Ala
	50					55				60					
Ser	Glu	Arg	Pro	Gly	Phe	Ile	Arg	Leu	Leu	Asp	Arg	Met	Glu	Asn	Gly
65					70					75					80

Asp Val Leu Ile Val Thr Lys Leu Asp Arg Leu Gly Arg Asn Ala Met
 85 90 95
 Asp Ile Arg Lys Thr Val Glu Gln Leu Ala Ala Leu Asp Ile Arg Val
 100 105 110
 His Cys Leu Ala Leu Gly Gly Val Asp Leu Thr Ser Pro Ala Gly Lys
 115 120 125
 Met Thr Met Gln Val Ile Ser Ala Val Ala Glu Phe Glu Arg Asp Leu
 130 135 140
 Leu Leu Glu Arg Thr Tyr Ser Gly Ile Ala Arg Ala Lys Ala Ala Gly
 145 150 155 160
 Lys Arg Phe Gly Arg Pro Pro Ile Leu Ser Glu Glu Gln Lys Gln Thr
 165 170 175
 Val Thr Glu Arg Leu Asn Ala Gly Ile Ser Ile Ser Ala Ile Ala Arg
 180 185 190
 Glu Phe Asn Thr Thr Arg Gln Ile Ile Leu Arg Val Lys Ala Gly Leu
 195 200 205
 Leu Gln Glu
 210

<210> 5713

<211> 134

<212> PRT

<213> Enterobacter cloacae

<400> 5713

Ser Pro Phe Ala Gly Leu Arg Leu Phe Gly Glu Lys Ser Asp Ser Val
 1 5 10 15
 Ile Cys Gly His Ser Asn Cys Gly Ala Met Lys Ala Ile Ala Asp Asn
 20 25 30
 Ala Asp Leu Glu Pro Met Pro Ala Val Ser His Trp Leu Arg Tyr Ser
 35 40 45
 Asp Ala Ala Lys Ala Val Val Glu Lys Lys Thr Trp Asp Lys Pro Ile
 50 55 60
 Asp Lys Val Asn Ala Met Val Gln Glu Asn Val Phe Ala Gln Leu Ser
 65 70 75 80
 Asn Ile Lys Thr His Pro Ser Val Ala Val Gly Leu Arg Asn Asn Ala
 85 90 95
 Ile Arg Leu His Gly Trp Val Tyr Asp Ile Glu Ser Gly Lys Ile Leu
 100 105 110
 Ala Leu Asp Lys Asn Thr Lys Ser Phe Val Ser Leu Ser Glu Asn Pro
 115 120 125
 Glu Val Phe Phe Glu
 130

<210> 5714

<211> 303

<212> PRT

<213> Enterobacter cloacae

<400> 5714

Gly Val Glu Leu Phe Gly Ser Ala Ala Pro Leu Val Lys Thr Glu Ala
 1 5 10 15
 Asp Phe Tyr Cys Pro Ile Pro Tyr Glu Pro Leu Ser Val Leu Thr Asp
 20 25 30
 Cys Val Val Ala Ser Glu Ile Asp Lys Gly Pro Asp Gly Leu Leu Asp
 35 40 45
 Arg Ile Phe Ala Leu Met Val Lys Glu Leu Glu Leu Ala Asp Pro Arg
 50 55 60
 Trp Cys Gln Ala Ile Ala Leu Gly Thr Leu Asn Ala Asp Thr Leu Arg
 65 70 75 80
 Asp Ala Trp Phe Glu Asp Arg Lys Lys His Gly Pro Phe Thr Trp Ala

				85				90					95				
Glu	Ala	Asn	Leu	Lys	Glu	Val	Glu	Arg	Asn	Lys	Arg	Glu	Lys	Arg	Thr		
			100					105					110				
Val	Ala	Trp	Arg	Tyr	Thr	Val	Leu	Arg	Leu	His	Glu	Val	Val	Gln	Ala		
		115					120					125					
Ile	Val	Pro	Ser	Leu	Asn	Glu	His	Asp	Arg	Glu	Arg	Phe	Lys	Ser	Gly		
		130				135					140						
Leu	Glu	Arg	Val	Phe	Ile	Asp	Asn	Tyr	Ala	Ala	Ile	Pro	Pro	Gln	Ser		
145					150					155					160		
Ile	Arg	Arg	Leu	Leu	Ala	Leu	Arg	Glu	Ala	Gly	Ile	Ile	Ser	Val	Val		
				165					170						175		
Ala	Leu	Gly	Asp	Asp	Tyr	Asp	Leu	Asp	Ile	Gly	Ser	Asp	Gln	Thr	Val		
			180					185					190				
Ile	Thr	Thr	Ala	Lys	Lys	Ser	Tyr	Arg	Phe	Asp	Val	Phe	Ile	Asp	Ala		
		195					200					205					
Arg	Gly	Gln	Lys	Pro	Leu	Arg	Asn	Lys	Asp	Ile	Pro	Phe	Pro	Thr	Leu		
		210				215					220						
Arg	Lys	Gln	Leu	Ala	Gly	Thr	Gly	Asp	Asp	Val	Pro	Asp	Val	Gly	Glu		
225					230					235					240		
Asp	Tyr	Thr	Leu	Leu	Ala	Pro	Ala	Ser	Leu	Arg	Gly	Arg	Ile	Ala	Phe		
				245					250						255		
Gly	Ala	Ile	Pro	Trp	Leu	Met	His	Asp	His	Pro	Phe	Val	Gln	Gly	Leu		
			260					265					270				
Ser	Glu	Cys	Ala	Glu	Ile	Gly	Lys	Ala	Met	Ala	Lys	Ala	Ala	Gly	Lys		
		275					280					285					
Pro	Ala	Ser	Gly	Val	Arg	Arg	Lys	Leu	Pro	Tyr	Met	Glu	Phe				
		290				295					300						

<210> 5715

<211> 127

<212> PRT

<213> Enterobacter cloacae

<400> 5715

Asn	Cys	Phe	Leu	Ile	Pro	Leu	Ile	Gln	Glu	Asn	Asp	Thr	Met	Leu	Asp		
1				5					10					15			
Trp	Asn	Asn	Tyr	Arg	Ser	Glu	Leu	Met	Gln	Arg	Leu	Gly	Glu	Leu	Gly		
		20						25					30				
Lys	Leu	Thr	Pro	Glu	Thr	Met	Lys	Gly	Val	Val	Ala	Leu	Gly	Asn	Ala		
		35					40					45					
Gly	Asn	Lys	Thr	Asp	Leu	Leu	Gly	Ala	Lys	Val	Arg	Glu	Leu	Ile	Ala		
		50				55					60						
Leu	Ala	Cys	Ala	Val	Thr	Thr	Arg	Cys	Asp	Gly	Cys	Ile	Ala	Phe	His		
65				70					75						80		
Ala	Asp	Ala	Ala	Val	Lys	Ala	Gly	Ala	Thr	Asp	Ala	Glu	Ile	Ala	Glu		
				85					90						95		
Ala	Leu	Gly	Val	Ala	Ile	Asn	Leu	Asn	Ala	Gly	Ala	Ala	Val	Ile	Ser		
		100						105					110				
Phe	Ser	Pro	His	Leu	Ser	Thr	Ala	Arg	Asp	Glu	Val	Ala	Ala	Pro			
		115					120					125					

<210> 5716

<211> 119

<212> PRT

<213> Enterobacter cloacae

<400> 5716

Leu	Met	Arg	Gly	Pro	Ala	Ala	Pro	Leu	Val	Lys	Thr	Thr	Gly	Met	Ser		
1				5					10					15			
Pro	Thr	Glu	Tyr	Ile	Met	Gln	Ala	Leu	Ala	Gly	Cys	Tyr	Thr	Ala	Thr		
		20						25					30				

Leu Thr Met Met Ala Ala Glu Lys Gly Ile Asp Leu Asp Gly Ile Glu
 35 40 45
 Leu Asp Leu Asn Phe Asp Ile Asn Leu Asn Gly Phe Leu Gly Leu Asp
 50 55 60
 Ser Asn Val Arg Lys Gly Ala Lys Ser Ile Arg Val Asp Val His Leu
 65 70 75 80
 Thr Ser Asn Thr Ala Ser Arg Glu Glu Leu Glu Ala Leu Val Ser Glu
 85 90 95
 Met Gln Lys Asn Ser Pro Ile His Asp Thr Leu Ala Asn Pro Val Glu
 100 105 110
 Met Ile Thr Arg Leu Ala
 115

<210> 5717

<211> 208

<212> PRT

<213> Enterobacter cloacae

<400> 5717

Gln Gln Tyr Asn Leu Ser Thr Ser Arg Leu Tyr Gly Val Ile Met Thr
 1 5 10 15
 Thr Met Thr Arg Glu Arg Leu Leu Ser Glu Ala Glu His Leu Met Arg
 20 25 30
 Glu Lys Gly Tyr Ser Ala Phe Ser Tyr Ala Asp Leu Ser Lys Ile Val
 35 40 45
 Gly Ile Thr Lys Ala Ser Ile His His His Phe Pro Thr Lys Asp Ile
 50 55 60
 Leu Gly Glu Gln Val Val Ile Gln Ala Phe Ser Asp Thr Gln Arg Val
 65 70 75 80
 Phe Glu Gln Ile Glu Ala Thr Glu Lys Ser Ala Glu Arg Arg Ile Ala
 85 90 95
 Ala Tyr Ile Asp Ile Phe Ala Gln Ser His Lys Ala Ser Leu Leu Pro
 100 105 110
 Leu Cys Cys Ala Leu Ser Ala Glu Thr Ala Asn Leu Pro Gln Ala Ile
 115 120 125
 Thr Val Gln Thr Ser Leu Tyr Phe Asp Met Gln Ile Glu Trp Leu Thr
 130 135 140
 Lys Val Val Arg Ala Gly Met Glu Ser Gly Glu Phe Ser Ser His Ala
 145 150 155 160
 Glu Pro Ser Asp Ile Ala Leu Met Ile Ile Asn Val Cys Glu Gly Ser
 165 170 175
 Ser Val Val Ala His Ala Thr Ala Arg Pro Glu Val Phe Ala Asn Ser
 180 185 190
 Leu Lys Tyr Ile Lys Leu Leu Leu Asn Thr Pro His Ser Gly Glu
 195 200 205

<210> 5718

<211> 262

<212> PRT

<213> Enterobacter cloacae

<400> 5718

Ser Arg Leu His Arg Arg Ile Ala Pro Phe Glu Asp His Ala Ile Ser
 1 5 10 15
 Ala Thr Leu Lys Glu Ser Leu Thr Lys Gln Gly Val Glu Phe Leu Thr
 20 25 30
 Gly Ala Asp Leu Lys Gln Val Lys Val Gly Gly Asp Leu Val Ile Cys
 35 40 45
 Thr Val Ile Val Gly Glu Asp Thr His Val Ile Thr Ala Glu Lys Ile
 50 55 60
 Leu Ile Ala Thr Gly Arg Arg Pro Val Thr Glu Lys Leu Asn Leu Asp

65					70					75				80
Ala	Val	Asn	Val	Ser	Val	Gly	Ala	Arg	Gly	Gln	Val	Ile	Val	Asp
				85					90					95
His	Leu	Met	Thr	Ser	Asn	Pro	Arg	Ile	Trp	Ala	Ala	Gly	Asp	Val
			100					105					110	Thr
Gly	Glu	Ala	Gln	Phe	Val	Tyr	Val	Ala	Val	Glu	Gln	Gly	Arg	Leu
		115					120					125		Ala
Ala	Ser	Asn	Ala	Leu	Gly	Gly	Glu	Leu	Ser	Ser	Leu	Asp	Tyr	Asn
		130				135					140			Ala
Leu	Pro	Arg	Val	Thr	Phe	Thr	Ser	Pro	Glu	Leu	Ala	Ser	Val	Gly
145					150					155				Leu
Thr	Pro	Leu	Gln	Ala	Glu	Glu	Arg	Gly	Ile	Pro	Tyr	Glu	Ile	Arg
			165						170					Glu
Leu	Pro	Val	Ala	Phe	Val	Leu	Arg	Ala	Ile	Val	Ser	Arg	His	Ser
			180					185					190	Asp
Gly	Leu	Ile	Arg	Leu	Val	Ser	Asp	Ser	Gln	Thr	Gly	Thr	Ile	Leu
		195					200				205			Gly
Val	His	Met	Val	Ser	Glu	Ser	Ala	Gly	Asp	Val	Ile	Ala	Ala	Ala
		210				215					220			Thr
Tyr	Ile	Ile	Ser	Ala	Asn	Met	Thr	Val	His	Gln	Leu	Ala	Asn	Ile
225					230					235				Trp
Ser	Pro	Glu	Phe	Thr	Met	Thr	Glu	Ser	Leu	Lys	Asn	Val	Ala	Lys
			245						250					Thr
Ser	Pro	Ile	Thr	Asn										255
			260											

<210> 5719

<211> 83

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (25)

<400> 5719

Gly	His	Met	Ser	Gln	Gln	Leu	Thr	Phe	Ala	Asp	Ser	Glu	Phe	Ser
1				5					10				15	Ser
Lys	Arg	Arg	Leu	Thr	Arg	Lys	Glu	Xaa	Phe	Leu	Ser	Arg	Met	Asp
			20					25				30		Thr
Leu	Leu	Pro	Trp	Pro	Gln	Leu	Leu	Gly	Asn	Ile	Glu	Pro	Val	Tyr
		35					40				45			Pro
Lys	Thr	Gly	Asn	Gly	Arg	Arg	Pro	Tyr	Ser	Leu	Glu	Thr	Met	Ser
		50				55					60			Arg
Asn	Pro	Cys	Leu	Gln	Leu	Trp	Tyr	Asn	Leu	Gly	Asp	Glu	Thr	Met
65				70					75					Glu
Asp	Ala	Leu												80

<210> 5720

<211> 166

<212> PRT

<213> Enterobacter cloacae

<400> 5720

Arg	Glu	Pro	Ser	Met	Asn	Ser	Leu	Leu	Thr	Leu	Ala	Lys	Asp	Leu
1				5					10				15	Glu
Gln	Lys	Ser	Lys	Ala	Gln	Gln	Gln	Thr	Thr	Gly	Glu	Met	Leu	Lys
			20					25				30		Ala
Ala	Phe	Ser	Glu	His	Glu	Lys	Ser	Val	Arg	Ala	Glu	Leu	Ser	Glu
		35					40					45		Ser

Glu Lys Arg Ile Ser Ala Ala Ile Leu Asp His Asp Arg Lys Leu Ser.
 50 55 60
 Ser Ala Met Ser Gln Arg Thr Lys Gly Met Leu Arg Met Val Ser Gln
 65 70 75 80
 Thr Trp Leu Thr Ile Val Leu Val Ser Ala Leu Leu Ile Ala Ser Ser
 85 90 95
 Ala Gly Ile Leu Trp Trp Gln Gly Gln Gln Ile Leu Glu Asn Tyr Thr
 100 105 110
 Thr Ile Arg Glu Gln Lys Ser Thr Gln Ala Met Leu Ser Glu Arg Asn
 115 120 125
 Ser Gly Val Gln Leu Ser Thr Cys Gly Glu Gln Arg Arg Cys Val
 130 135 140
 Arg Val Asn Pro Glu Ala Gly Gln Phe Gly Glu Asp Ser Ser Trp Met
 145 150 155 160
 Ile Leu Ala Gly Lys
 165

<210> 5721

<211> 73

<212> PRT

<213> Enterobacter cloacae

<400> 5721

His Met Thr Glu Leu Glu Lys Gln Leu Leu Ser Ala Leu Glu Gln Leu
 1 5 10 15
 Gln Gln Asp Tyr Ser Lys Arg Leu Asp Glu Trp Glu Asn Ala Phe Ala
 20 25 30
 Glu Trp Arg Thr Met Ser Gly Leu Ile Gln Arg Glu Asn Ala Ala Leu
 35 40 45
 Asn Glu Arg Val Thr Val Leu Ser Arg Gln Val Gln Ser Leu Ser Glu
 50 55 60
 Gln Leu Arg Arg Leu Ser Lys Gly
 65 70

<210> 5722

<211> 287

<212> PRT

<213> Enterobacter cloacae

<400> 5722

Pro Thr Leu Pro Ser Thr Asp Gly Gly Arg Asn Ile Arg Leu Lys Gly
 1 5 10 15
 Ala Ile Tyr Glu Gln Ser Phe Asn Ala Gly Glu Gly Leu Arg Ala Glu
 20 25 30
 Ile Glu Ser Ala Ala Ala Asp Tyr Arg Arg Asp Ala Glu Ser Arg Ile
 35 40 45
 Gln Arg Ala Arg Glu Val Cys Gln Ser Gly Thr Glu Arg Lys Arg Glu
 50 55 60
 Glu Asn Gln Arg Arg His Pro Arg Pro Arg Pro Glu Ala Val Leu Ser
 65 70 75 80
 His Glu Pro Ala His Glu Arg Asp Ala Ala His Gly Gln Pro Asp Val
 85 90 95
 Ala Asp His Arg Ser Gly Leu Arg Ala Ala Asp Ser Val Glu Arg Gly
 100 105 110
 His Ser Val Val Ala Gly Ala Ala Asp Thr Arg Glu Leu Tyr Asp His
 115 120 125
 Pro Gly Ala Glu Glu His Ala Gly His Ala Val Arg Glu Glu Gln Arg
 130 135 140
 Arg Thr Ala Leu Asp Leu Arg Arg Ala Glu Thr Pro Leu Arg Glu Gly
 145 150 155 160
 Glu Pro Gly Ser Gly Thr Val Arg Arg Gly Leu Glu Leu Asp Asp Thr

				165					170					175			
Gly	Gly	Glu	Ile	Ala	His	Asp	Gly	Ala	Gly	Lys	Thr	Val	Ala	Glu	Arg		
			180					185					190				
Ile	Arg	Ala	Ala	Thr	Ala	Gly	Leu	Leu	Glu	Lys	Ala	Gly	Arg	Val	Gly		
		195					200					205					
Glu	Arg	Leu	Arg	Gly	Met	Ala	Asp	Asp	Val	Trp	Ser	Tyr	Ser	Thr	Gly		
	210					215					220						
Glu	Arg	Gly	Ala	Glu	Arg	Ala	Arg	His	Gly	Leu	Glu	Gln	Ala	Gly	Ala		
225					230					235					240		
Glu	Phe	Glu	Arg	Ala	Ala	Ala	Pro	Val	Val	Glu	Arg	Leu	Asn	Ala	Ile		
				245					250					255			
Glu	Thr	His	Arg	Gln	Gln	Glu	Arg	Ala	Val	Gln	His	Gln	Lys	Ala	Leu		
			260					265					270				
Glu	Leu	Glu	Arg	Ser	Gln	Trp	Gln	His	His	Gly	Pro	Ser	Leu				
		275					280					285					

<210> 5723

<211> 209

<212> PRT

<213> Enterobacter cloacae

<400> 5723

Trp	Arg	Gln	Phe	Phe	Ser	Phe	Cys	Leu	Arg	Phe	Val	Glu	Asn	Pro	Lys		
1				5				10					15				
Met	Leu	Lys	Lys	Leu	Phe	Phe	Pro	Leu	Val	Ala	Leu	Phe	Met	Leu	Ala		
			20					25				30					
Gly	Cys	Ala	Thr	Pro	Pro	Thr	Thr	Ile	Asp	Val	Ser	Pro	Lys	Ile	Thr		
		35				40					45						
Leu	Pro	Gln	Gln	Asp	Pro	Ser	Leu	Met	Gly	Val	Thr	Val	Ser	Ile	Asn		
	50					55				60							
Gly	Ala	Asp	Gln	Arg	Gln	Asp	Gln	Ala	Leu	Ala	Lys	Val	Thr	Arg	Asp		
65				70				75						80			
Asn	Gln	Gln	Val	Thr	Leu	Thr	Ala	Ser	Arg	Asp	Leu	Arg	Phe	Leu	Leu		
				85				90					95				
Gln	Glu	Val	Leu	Glu	Lys	Gln	Met	Thr	Ser	Arg	Gly	Tyr	Met	Ile	Gly		
		100					105					110					
Pro	Ser	Gly	Ala	Val	Asp	Leu	Gln	Ile	Ile	Val	Asn	Asn	Leu	Tyr	Ala		
	115					120					125						
Asp	Val	Ser	Gln	Gly	Asn	Val	Arg	Tyr	Asn	Ile	Ala	Thr	Lys	Ala	Asp		
	130				135					140							
Ile	Ala	Ile	Ile	Ala	Thr	Ala	Lys	Asn	Gly	Asn	Lys	Met	Asn	Lys	Asn		
145				150				155						160			
Tyr	Arg	Ala	Ser	Tyr	Ser	Val	Glu	Gly	Ala	Phe	Gln	Ala	Ser	Asn	Lys		
			165					170						175			
Asn	Ile	Ala	Asp	Ala	Val	Asn	Ser	Val	Leu	Thr	Asp	Thr	Ile	Ala	Asp		
		180					185					190					
Met	Ala	Gln	Asp	Thr	Ser	Ile	His	Asp	Phe	Ile	Lys	Gln	Asn	Ala	Arg		
		195					200					205					

<210> 5724

<211> 124

<212> PRT

<213> Enterobacter cloacae

<400> 5724

Leu	Thr	Arg	Cys	Phe	Thr	Gly	Ser	Val	His	Lys	Asn	Met	Ser	Ser	His		
1				5				10					15				
Tyr	Leu	Arg	Ile	Phe	Gln	Gln	Pro	Lys	Ser	Ala	Ile	Leu	Leu	Ile	Leu		
			20					25				30					

Gly Phe Ala Ser Gly Leu Pro Leu Ala Leu Thr Ser Gly Thr Leu Gln
 35 40 45
 Ala Trp Met Thr Val Glu Asn Ile Asp Leu Lys Thr Ile Gly Phe Phe
 50 55 60
 Ser Leu Val Gly Gln Ala Tyr Val Phe Lys Phe Leu Trp Ser Pro Val
 65 70 75 80
 Met Asp Arg Tyr Thr Pro Pro Phe Leu Gly Arg Arg Arg Gly Trp Leu
 85 90 95
 Ala Met Thr Gln Ala Leu Leu Leu Leu Ala Ile Ala Ala Pro Val Ser
 100 105 110
 Leu Ser Cys Glu Gln Ser Gly Ser Pro Lys Gly
 115 120

<210> 5725

<211> 79

<212> PRT

<213> Enterobacter cloacae

<400> 5725

Arg Cys Arg Arg Ser Asp Phe Met Met Ile Arg Glu Gln Ile Glu Glu
 1 5 10 15
 Lys Leu Arg Ala Phe Asn Pro Val Phe Leu Glu Val Val Asp Glu
 20 25 30
 Ser Tyr Arg His Asn Val Pro Ala Gly Ser Glu Ser His Phe Lys Val
 35 40 45
 Val Leu Val Ser Asp Arg Phe Thr Gly Glu Arg Phe Leu Asn Arg His
 50 55 60
 Arg Ser Ile Cys Leu His Cys Arg Val Pro Val Arg Ala Met Leu
 65 70 75

<210> 5726

<211> 255

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (253)

<400> 5726

Thr Ala Pro Val His Ser Gly Ala Val Leu Thr Phe Leu Lys Thr Leu
 1 5 10 15
 Arg Lys Arg Arg Tyr Phe Glu Phe Tyr Glu Ala Ser Asn Met Val Pro
 20 25 30
 Val Val Ala Leu Val Gly Arg Pro Asn Val Gly Lys Ser Thr Leu Phe
 35 40 45
 Asn Arg Leu Thr Arg Thr Arg Asp Ala Leu Val Ala Asp Phe Pro Gly
 50 55 60
 Leu Thr Arg Asp Arg Lys Tyr Gly Arg Ala Glu Val Glu Gly Arg Glu
 65 70 75 80
 Phe Ile Cys Ile Asp Thr Gly Gly Ile Asp Gly Thr Glu Asp Gly Val
 85 90 95
 Glu Thr Arg Met Ala Glu Gln Ser Leu Leu Ala Ile Glu Glu Ala Asp
 100 105 110
 Val Val Leu Phe Met Val Asp Ala Arg Ala Gly Leu Met Pro Ala Asp
 115 120 125
 Ser Ala Ile Ala Lys His Leu Arg Ser Arg Glu Lys Pro Thr Phe Leu
 130 135 140
 Val Ala Asn Lys Thr Asp Gly Ile Asp Ala Asp Gln Ala Ile Ala Asp
 145 150 155 160
 Phe Trp Ser Leu Gly Leu Gly Asp Ile Tyr Pro Ile Ala Ala Ser His

				165					170					175			
Gly	Arg	Gly	Val	Thr	Ser	Leu	Leu	Glu	Thr	Val	Leu	Leu	Pro	Trp	Val		
			180					185					190				
Asp	Glu	Val	Asn	Pro	Pro	Glu	Glu	Val	Asp	Glu	Asp	Ala	Glu	Tyr	Trp		
		195					200					205					
Ala	Gln	Phe	Glu	Ala	Gly	Glu	Glu	Gly	Glu	Glu	Glu	Pro	Glu	Asp	Asp		
	210					215					220						
Phe	Asn	Pro	Gln	Asp	Leu	Pro	Ile	Lys	Leu	Ala	Ile	Val	Gly	Arg	Pro		
225					230					235					240		
Asn	Val	Gly	Lys	Ser	Thr	Leu	Thr	Asn	Arg	Ile	Phe	Xaa	Arg				
				245					250					255			

<210> 5727

<211> 202

<212> PRT

<213> Enterobacter cloacae

<400> 5727

Leu	Phe	Ser	Arg	Gly	Cys	Ser	Tyr	Val	Val	Lys	Thr	Phe	Gly	Ala	Ala		
1				5					10					15			
Ile	Val	Gly	Gly	Asp	Asn	Gly	Arg	Val	Ser	Ala	Val	Leu	Met	Gln	Gln		
		20						25					30				
Gly	Gln	Met	Ile	Trp	Gln	Gln	Arg	Ile	Ser	Gln	Ala	Thr	Gly	Ser	Thr		
		35					40					45					
Glu	Ile	Asp	Arg	Leu	Ser	Asp	Val	Asp	Thr	Thr	Pro	Val	Ile	Val	Asp		
	50					55					60						
Gly	Val	Val	Tyr	Ala	Leu	Ala	Tyr	Asn	Gly	Asn	Leu	Thr	Ala	Leu	Asp		
65				70					75					80			
Leu	Arg	Ser	Gly	Gln	Ile	Met	Trp	Lys	Arg	Glu	Leu	Gly	Ser	Val	Asn		
			85					90						95			
Asp	Phe	Ile	Val	Asp	Gly	Asn	Arg	Ile	Tyr	Met	Val	Asp	Gln	Asn	Asp		
		100						105					110				
Arg	Leu	Leu	Ala	Leu	Ser	Thr	Glu	Gly	Gly	Val	Thr	Leu	Trp	Thr	Gln		
		115					120					125					
Ser	Asp	Leu	Leu	His	Arg	Leu	Leu	Thr	Ala	Pro	Ala	Leu	Tyr	Asn	Gly		
	130					135					140						
Ser	Leu	Val	Val	Gly	Asp	Ser	Glu	Gly	Tyr	Met	His	Trp	Ile	Asp	Pro		
145				150					155					160			
Glu	Asn	Gly	Arg	Phe	Val	Ala	Gln	Gln	Lys	Val	Asp	Ser	Ser	Gly	Phe		
				165					170					175			
Leu	Thr	Glu	Pro	Val	Val	Ala	Asp	Gly	Lys	Leu	Leu	Ile	Gln	Ala	Lys		
			180					185					190				
Asp	Gly	Thr	Leu	Tyr	Ala	Ile	Thr	Arg									
	195						200										

<210> 5728

<211> 154

<212> PRT

<213> Enterobacter cloacae

<400> 5728

Val	Ile	Val	Thr	His	His	Pro	Ser	Leu	Leu	Cys	Leu	Lys	Asn	Ser	Arg		
1				5					10					15			
Val	Gln	Pro	Pro	Lys	Ser	Thr	Ala	Lys	Thr	Tyr	Asn	His	Thr	Ile	Lys		
		20						25					30				
Pro	Ser	Asp	Phe	Gln	Met	Cys	Arg	Thr	Asp	Lys	Phe	Gln	Leu	Ser	Val		
		35					40					45					
Leu	Asn	Thr	Ile	Ile	Phe	Thr	Ile	Asp	Ala	Pro	Ile	Lys	Thr	Gly	Leu		
	50					55					60						
Ser	Ile	Asn	His	Leu	Ser	Ile	Ile	Ser	Gly	Tyr	Ser	Lys	Trp	His	Leu		
65					70				75					80			

Gln Lys Ile Phe Lys His His Phe Gly Met Ser Leu Gly Thr Tyr Ile
 85 90 95
 Arg Arg Lys Arg Ile Glu Tyr Ala Ala His Glu Ile Ile Asn Lys Lys
 100 105 110
 Cys Lys Ile Ile Asp Val Val Ile Asp Phe Asn Phe Ser Asn Gln Ser
 115 120 125
 Ser Phe Cys Arg Thr Phe Lys Ser Ile Tyr Gly Val Ser Pro Lys Glu
 130 135 140
 Phe Lys Ser Glu His Ile Asn His Leu
 145 150

<210> 5729

<211> 64

<212> PRT

<213> Enterobacter cloacae

<400> 5729

Lys Gly Lys Trp Val Ser Phe Arg Glu Trp Arg Ala Arg Val Arg Phe
 1 5 10 15
 Leu Asn Ser Leu Pro Leu Leu Arg Thr Glu Lys Thr Ile Gln Glu Ile
 20 25 30
 Ser Tyr Leu Leu Gly Tyr Ser Asn Thr Ser Ser Phe Ile Ile Met Phe
 35 40 45
 Glu Lys Leu Ser Gly Thr Thr Pro Glu Lys Tyr Arg Lys Asn Ile
 50 55 60

<210> 5730

<211> 120

<212> PRT

<213> Enterobacter cloacae

<400> 5730

Ser Cys Leu Phe Leu Cys Phe Phe Cys Pro Phe Met Leu Ile Ile Phe
 1 5 10 15
 Asn Thr Met Cys Val Ile Ile Ile Ala Thr Glu Leu Glu Lys Arg Cys
 20 25 30
 Ile Met Lys Asn Val Leu Ser Leu Ser Leu Leu Leu Phe Ile Ser Ser
 35 40 45
 Gly Tyr Ala Ala Ser Glu Val Thr Tyr Leu Asn Pro Thr Pro Gln Gly
 50 55 60
 Ala Val Arg Ile Gly Glu Val Ser Phe Phe Lys Ala Gly Ser Ala Thr
 65 70 75 80
 Gln Ser Glu Val Ile Gly Ser Leu Ser Lys Lys Ala Asp Ser Leu Gly
 85 90 95
 Gly Thr His Phe Glu Ile Ser Ser Leu Asn Ser Ser Asp Asn Thr Tyr
 100 105 110
 Ala Thr Ala Ile Val Tyr Lys
 115 120

<210> 5731

<211> 72

<212> PRT

<213> Enterobacter cloacae

<400> 5731

Thr Leu Gly Thr Val Leu Phe Leu Cys Phe Ser Ile Gly Leu Ala Ile
 1 5 10 15
 Thr Met Val Ala Ile Gly Ala Val Ala Val Ser Val Glu Gln Ala
 20 25 30
 Ser Lys Arg Trp Asp Gly Leu Asp Val Leu Ala Arg Arg Ala Pro Tyr
 35 40 45

Phe Ser Ser Ala Leu Ile Ala Leu Gly Gly Ile Tyr Met Gly Tyr His
 50 55 60
 Gly Trp Leu Gly Ile Thr Asn
 65 70

<210> 5732

<211> 104

<212> PRT

<213> Enterobacter cloacae

<400> 5732

Pro Asp Phe Asp Leu Pro Asn Thr Thr Trp Gln Pro Thr Lys Leu Asp
 1 5 10 15
 Leu Glu Asn Ile Leu Glu Pro Ser Pro Arg Arg Ile Trp Pro Asp Ala
 20 25 30
 Tyr Glu Arg Leu Leu Leu Glu Thr Ile Arg Gly Ile Gln Ala Leu Phe
 35 40 45
 Phe His Arg Asp Glu Val Glu Glu Ala Trp Lys Trp Val Asp Ser Ile
 50 55 60
 Thr Glu Ala Trp Ala Ala Asp Gln Asp Ala Pro Lys Pro Tyr Gln Ala
 65 70 75 80
 Gly Thr Trp Gly Pro Val Ala Ser Val Ala Met Ile Thr Arg Asp Gly
 85 90 95
 Arg Ser Trp Asn Glu Phe Glu
 100

<210> 5733

<211> 295

<212> PRT

<213> Enterobacter cloacae

<400> 5733

Ile Arg Gly Ala Phe Met Asn Pro Thr Leu Leu Arg Val Thr Gln Arg
 1 5 10 15
 Ile Val Glu Arg Ser Lys Glu Thr Arg Ala Ala Tyr Leu Ala Arg Ile
 20 25 30
 Glu Gln Ala Lys Ser Glu Thr Val His Arg Ser Gln Leu Ala Cys Gly
 35 40 45
 Asn Leu Ala His Gly Phe Ala Cys Gln Pro Gly Asp Lys Asp Ala
 50 55 60
 Leu Lys Ser Met Leu Arg Asn Asn Ile Ala Ile Ile Thr Ser Tyr Asn
 65 70 75 80
 Asp Met Leu Ser Ala His Gln Pro Tyr Glu Val Tyr Pro Ser Ile Ile
 85 90 95
 Arg Asn Ala Leu His Ser Val Asn Ala Val Gly Gln Val Ala Gly Gly
 100 105 110
 Val Pro Ala Met Cys Asp Gly Val Thr Gln Gly Gln Asp Gly Met Glu
 115 120 125
 Leu Ser Leu Leu Ser Arg Glu Val Ile Ala Met Ser Ala Ala Val Gly
 130 135 140
 Leu Ser His Asn Met Phe Asp Gly Ala Leu Tyr Leu Gly Val Cys Asp
 145 150 155 160
 Lys Ile Val Pro Gly Leu Val Met Ala Ala Leu Ser Phe Gly His Leu
 165 170 175
 Pro Ala Ile Phe Val Pro Ser Gly Pro Met Ala Ser Gly Leu Pro Asn
 180 185 190
 Lys Glu Lys Val Arg Ile Arg Gln Leu Tyr Ala Glu Gly Lys Ala Asp
 195 200 205
 Arg Gln Ala Leu Leu Glu Ala Glu Ala Ala Ser Tyr His Ala Pro Gly
 210 215 220
 Thr Cys Thr Phe Tyr Gly Thr Ala Asn Thr Asn Gln Met Val Val Glu

225					230					235				240	
Tyr	Met	Gly	Met	Gln	Leu	Pro	Gly	Ser	Ser	Phe	Ile	Gln	Pro	Asp	Ala
				245					250					255	
Pro	Leu	Arg	Lys	Ala	Leu	Thr	Glu	Ala	Ala	Ser	Arg	Gln	Val	Thr	Arg
			260					265					270		
Leu	Thr	Gly	Asn	Gly	Asn	Glu	Trp	Met	Pro	Met	Gly	Lys	Met	Val	Asp
		275					280					285			
Glu	Lys	Val	Ile	Val	Lys	Arg									
	290					295									

<210> 5734
 <211> 129
 <212> PRT
 <213> Enterobacter cloacae

<220>
 <221> UNSURE
 <222> (15)

<220>
 <221> UNSURE
 <222> (94)

<400> 5734															
Gln	Asn	Gly	Arg	His	Met	Leu	Thr	Cys	Tyr	Ala	Leu	Asn	His	Xaa	Arg
1				5					10					15	
Thr	Lys	Thr	Gln	Leu	Ala	Thr	Ala	Ala	Gly	Val	Lys	Leu	Gln	Ser	Ile
			20					25					30		
Tyr	Asn	Trp	Lys	Glu	Leu	Val	Pro	Glu	Thr	Arg	Ala	His	Arg	Leu	Glu
		35					40					45			
Thr	Thr	Phe	Gly	Arg	Val	Leu	Thr	Phe	His	Lys	Thr	Ile	Phe	Glu	Pro
		50				55					60				
His	Arg	Lys	Ala	Gln	Thr	Thr	Gly	Lys	Lys	Asn	Thr	Ser	Pro	Pro	Pro
65					70					75					80
Arg	Asp	Ser	Asn	Leu	Trp	Lys	Phe	Gln	Pro	Thr	Pro	Ser	Xaa	Ala	Phe
			85						90					95	
Cys	Leu	Ala	Gly	Ala	Ala	Glu	Leu	Arg	Glu	Gly	Leu	Ser	Pro	Glu	Gly
		100						105					110		
Asn	Pro	Ala	Gln	Ile	Thr	Pro	Pro	Arg	Gly	Gly	Pro	Pro	Ser	Pro	Gly
		115					120					125			

Trp

<210> 5735
 <211> 141
 <212> PRT
 <213> Enterobacter cloacae

<400> 5735															
Asn	Cys	Leu	Thr	Met	Lys	Asn	Met	Asn	Ser	Leu	Gly	Gln	Arg	Ile	Leu
1				5					10					15	
Ala	Arg	Arg	Lys	Glu	Leu	Lys	Leu	Thr	Gln	Arg	Glu	Ala	Ala	Lys	Leu
			20					25					30		
Ala	Gly	Val	Ala	His	Val	Thr	Ile	Ser	Gln	Trp	Glu	Arg	Asp	Glu	Thr
		35					40					45			
Gln	Pro	Val	Gly	Ala	Arg	Leu	Phe	Ala	Leu	Ala	Lys	Ala	Leu	Ser	Cys
	50					55					60				
Thr	Pro	Thr	Trp	Leu	Met	Phe	Gly	Asp	Asp	Asp	Gln	Ala	Pro	Val	Pro
65					70					75					80
Ala	Glu	Asp	Ile	Gln	Leu	Ala	Pro	Gln	Leu	Ser	Asp	Lys	His	Arg	Glu
				85					90					95	

Leu Ile Asp Leu Tyr Asp Ser Leu Pro Glu Ser Glu Gln Glu Ala Gln
 100 105 110
 Leu Glu Gln Leu Arg Ala Arg Val Lys Asn Phe Asn Lys Leu Phe Glu
 115 120 125
 Glu Leu Leu Lys Ala Arg Gln Arg Gln Ser Lys Lys
 130 135 140

<210> 5736

<211> 420

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (15)

<400> 5736

Asn Gly Leu Gly Asp Ser Cys Pro Gly Leu Met Glu Lys Gly Xaa Trp
 1 5 10 15
 Ile Ser Gly Glu Leu Phe Val Pro Leu Pro Gly Tyr Leu Phe Gly Tyr
 20 25 30
 His Leu Glu Ser Gly Asp Ile Met Lys Met Lys Cys Asn Asn Arg Leu
 35 40 45
 Leu Arg Leu Ser Ala Ser Leu Thr Leu Ile Ser Leu Val Val Thr Ala
 50 55 60
 Ala Asn Ala Asn Asn Gly Gln Ala Gly Ile Ser Pro Val Ala Ala Met
 65 70 75 80
 Thr Met Lys Glu Ser Ile Leu Phe Ala Leu Asp Arg Asp Pro Ser Val
 85 90 95
 Ser Gln Gln Ala Ala Gln Leu Gly Ile Gly Gln Ala Gln Ile Asp Glu
 100 105 110
 Ala Arg Ser Gly Trp Met Pro Gln Ile Ala Leu Asn Gly Arg Thr Gly
 115 120 125
 His Ser Gln Thr Thr Asp Ser Ser Gly Ser Leu Arg Asn Ser Ala Ala
 130 135 140
 Trp Gly Leu Ser Leu Thr Gln Leu Val Tyr Asp Phe Gly Lys Thr Asn
 145 150 155 160
 Asn Ser Ile Ser Gln Ser Ser Ala Gln Arg Asp Ser Tyr Arg Tyr Gln
 165 170 175
 Leu Met Ser Thr Met Ser Ala Val Ala Glu Lys Thr Ala Leu Ser Tyr
 180 185 190
 Val Glu Val Lys Arg Tyr Ser Asp Leu Leu Gln Ala Ala Lys Glu Asn
 195 200 205
 Val Gln Ala Leu Lys Asn Val Glu Gln Leu Ala Lys Leu Arg Ala Asp
 210 215 220
 Ala Gly Val Ser Ser Thr Ser Asp Glu Leu Gln Thr Arg Thr Arg Ile
 225 230 235 240
 Ala Gly Met Gln Ala Thr Val Glu Gln Tyr Asn Ala Ser Leu Asn Ser
 245 250 255
 Ala Arg Ala Arg Leu Ala Val Leu Thr Gly Ile Gln Ala Glu Arg Tyr
 260 265 270
 Ser Pro Val Pro Gly Gly Leu Ala Val Glu Pro Asp Ser Leu Asn Arg
 275 280 285
 Ile Asp Tyr Ser Leu Ile Pro Thr Val Met Ala Ala Gln Asn Met Glu
 290 295 300
 Arg Ser Ala Gln Tyr Gly Val Glu Thr Ala Lys Ser Gln His Trp Pro
 305 310 315 320
 Thr Leu Ser Leu Lys Gly Gly Arg Thr Arg Tyr Glu Ser Asp Asn Arg
 325 330 335
 Ala Tyr Trp Asp Asp Gln Ile Gln Leu Asn Ile Asp Ala Pro Leu Tyr
 340 345 350

Gln Gly Gly Ala Val Ser Ala Arg Val Arg Gln Ala Glu Gly Ala Arg
 355 360 365
 Ala Met Ala Ser Ser Gln Val Asp Gln Ala Arg Phe Asp Val Leu Gln
 370 375 380
 Lys Ile Leu Arg Arg Thr Gly Arg Leu Asp Arg Gly Ala Trp Thr Asn
 385 390 395 400
 Gly Ser Arg Glu Thr Ser Ala Gly Lys Cys Val Ala Arg Pro Arg Cys
 405 410 415
 Leu Gln Lys
 420

<210> 5737

<211> 399

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (386)

<400> 5737

Arg Ser Gly Gly Val Thr Gln Gln Ser Lys Thr Ser His Trp Ser Thr
 1 5 10 15
 Ile Met Ser Ile Ser Leu Lys Lys Ser Gly Met Leu Lys Leu Gly Leu
 20 25 30
 Ser Leu Val Ala Met Thr Val Ala Ala Ser Val Gln Ala Lys Thr Leu
 35 40 45
 Val Tyr Cys Ser Glu Gly Ser Pro Glu Gly Phe Asn Pro Gln Leu Phe
 50 55 60
 Thr Ser Gly Thr Thr Tyr Asp Ala Ser Ser Val Pro Ile Tyr Asn Arg
 65 70 75 80
 Leu Val Glu Phe Lys Thr Gly Thr Thr Glu Val Ile Pro Gly Leu Ala
 85 90 95
 Glu Lys Trp Asp Ile Ser Glu Asp Gly Lys Thr Tyr Thr Phe His Leu
 100 105 110
 Arg Gln Gly Val Lys Trp Gln Asp Ser Lys Glu Phe Lys Pro Thr Arg
 115 120 125
 Asp Phe Asn Ala Asp Asp Val Phe Ser Phe Asp Arg Gln Lys Asn
 130 135 140
 Ala Gln Asn Pro Tyr His Lys Val Ser Gly Gly Ser Tyr Glu Tyr Phe
 145 150 155 160
 Glu Gly Met Gly Leu Pro Asp Leu Ile Ala Glu Val Lys Lys Val Asp
 165 170 175
 Asp Lys Thr Val Gln Phe Val Leu Thr Arg Pro Glu Ala Pro Phe Leu
 180 185 190
 Ala Asp Leu Ala Met Asp Phe Ala Ser Ile Leu Ser Lys Glu Tyr Ala
 195 200 205
 Asp Asn Met Leu Lys Ala Gly Thr Pro Glu Lys Val Asp Leu Asn Pro
 210 215 220
 Ile Gly Thr Gly Pro Phe Gln Leu Leu Gln Tyr Gln Lys Asp Ser Arg
 225 230 235 240
 Ile Leu Tyr Lys Ala Phe Pro Gly Tyr Trp Gly Thr Lys Pro Gln Ile
 245 250 255
 Asp Arg Leu Val Phe Ser Ile Thr Pro Asp Ala Ser Val Arg Tyr Ala
 260 265 270
 Lys Leu Gln Lys Asn Glu Cys Gln Val Met Pro Tyr Pro Asn Pro Ala
 275 280 285
 Asp Ile Ala Arg Met Lys Gln Asp Lys Asn Ile Asn Leu Leu Glu Gln
 290 295 300
 Ala Gly Leu Asn Val Gly Tyr Leu Ser Phe Asn Thr Glu Lys Lys Pro
 305 310 315 320

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<210> 5738
<211> 112
<212> PRT
<213> Enterobacter cloacae
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Met	Ala	Ile	Ala	Asp	Leu	Asp	Lys	Gln	Pro	Asp	Ser	Val	Ser	Ser	Val
1				5					10					15	
Leu	Lys	Val	Phe	Gly	Ile	Leu	Gln	Ala	Leu	Gly	Glu	Glu	Arg	Glu	Ile
			20					25					30		
Gly	Ile	Thr	Glu	Leu	Ser	Gln	Arg	Val	Met	Met	Ser	Lys	Ser	Thr	Val
			35				40					45			
Tyr	Arg	Phe	Leu	Gln	Thr	Met	Lys	Ser	Leu	Gly	Tyr	Val	Ala	Gln	Glu
	50					55					60				
Gly	Glu	Ser	Glu	Lys	Tyr	Ser	Leu	Thr	Leu	Lys	Leu	Phe	Glu	Leu	Gly
65				70						75				80	
Ala	Arg	Ala	Leu	Gln	Asn	Val	Asp	Leu	Ile	Arg	Ser	Ala	Asp	Ile	Gln
				85					90					95	
Met	Arg	Glu	Leu	Ser	Arg	Leu	Thr	Lys	Glu	Thr	Ile	His	Leu	Gly	Ala
			100					105					110		

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<210> 5739
<211> 329
<212> PRT
<213> Enterobacter cloacae
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Asn	Ser	Tyr	Ser	Glu	Asn	Asn	Phe	Thr	Leu	Ser	His	Ser	Phe	Pro	Met
1				5					10					15	
Gln	Lys	Asn	Val	Ser	Asp	Gly	Leu	Pro	Leu	Pro	Gln	Arg	Tyr	Gly	Ala
			20					25					30		
Ile	Ala	Thr	Ile	Val	Ile	Gly	Ile	Ser	Met	Ala	Val	Leu	Asp	Gly	Ala
			35				40					45			
Ile	Ala	Asn	Val	Ala	Leu	Pro	Thr	Ile	Ala	Lys	Asp	Leu	Asn	Ala	Ser
			50			55					60				
Pro	Ala	Ser	Ser	Ile	Trp	Ile	Val	Asn	Ala	Tyr	Gln	Ile	Ala	Ile	Val
65					70					75				80	
Ile	Ser	Leu	Leu	Ser	Leu	Ser	Phe	Leu	Gly	Asp	Met	Phe	Gly	Tyr	Arg
				85					90					95	
Arg	Val	Tyr	Gln	Cys	Gly	Leu	Val	Val	Phe	Thr	Leu	Thr	Ser	Leu	Phe
			100					105					110		
Cys	Ala	Leu	Ser	Asp	Ser	Leu	His	Thr	Leu	Thr	Leu	Ala	Arg	Ile	Ala
			115				120					125			
Gln	Gly	Phe	Gly	Gly	Ala	Ala	Leu	Met	Ser	Val	Asn	Thr	Ala	Leu	Ile
			130			135					140				
Arg	Leu	Ile	Tyr	Pro	His	Arg	His	Leu	Gly	Arg	Gly	Met	Gly	Ile	Asn
145					150					155				160	
Ser	Phe	Ile	Val	Ala	Val	Ser	Ser	Ala	Ala	Gly	Pro	Thr	Ile	Ala	Ala
				165					170					175	
Ala	Ile	Leu	Ser	Val	Ala	Ser	Trp	Gln	Trp	Leu	Phe	Ala	Ile	Asn	Val

```
<210> 5740
<211> 237
<212> PRT
<213> Enterobacter cloacae
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```
<210> 5741
<211> 114
<212> PRT
<213> Enterobacter cloacae
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<400> 5741

Ser Arg Gln Ser Gly Ala Trp Ala Thr Cys Trp Arg Ser Arg Met His
 1 5 10 15
 Ser Lys Pro Ser Arg Arg Pro Phe Ser Leu Ala Leu Arg Leu Thr Phe
 20 25 30
 Phe Ile Ser Leu Ser Thr Ile Leu Ala Phe Ile Ala Phe Thr Trp Phe
 35 40 45
 Met Leu His Ser Val Glu Asn His Phe Ala Glu Gln Asp Val Ser Asp
 50 55 60
 Leu Gln Gln Ile Ser Thr Thr Leu Asn Arg Ile Leu Gln Ser Pro Val
 65 70 75 80
 Asp Pro Asp Asp Lys Lys Ile Ser Lys Ile Lys Glu Ser Ile Ala Ser
 85 90 95
 Tyr Arg Asn Val Ala Leu Leu Leu Leu Asn Pro Arg Gly Gly Ser Ala
 100 105 110
 Leu

<210> 5742

<211> 201

<212> PRT

<213> Enterobacter cloacae

<400> 5742

Ile Ile Leu Gly Cys His Gly Glu Met Ile Ser Gly Lys Thr Ile Ile
 1 5 10 15
 Ser Val Ile His Tyr Glu Pro Cys Leu Cys Lys Pro Phe Ala Glu Ile
 20 25 30
 Phe Thr Cys Phe Asn Phe Val Phe Asp Asp Gln Tyr Phe His Leu Ala
 35 40 45
 Pro Arg Leu Ala Ala Asn Val Ile Leu Leu Arg Pro Arg Ser Leu Ser
 50 55 60
 Thr Asp Tyr Ser Lys Asn Asp Asn Ile Val Ile Ile Leu Ser Pro Gly
 65 70 75 80
 Lys Gln Arg Ala Leu Gly Lys Val Pro Leu Ser Ile Leu Trp Thr Ser
 85 90 95
 Phe Glu Pro Phe Thr Arg Ser Ala Trp Thr Arg Ser Val Met Phe Lys
 100 105 110
 Leu Lys Leu Leu Ser Ile Ser Thr Ile Phe Ile Leu Ala Gly Cys Val
 115 120 125
 Ser Leu Ala Pro Glu Tyr Gln Arg Pro Ala Ala Pro Val Pro Gln Gln
 130 135 140
 Phe Ser Leu Ser His Asn Ser Leu Thr Pro Ala Val Asn Gly Tyr Gln
 145 150 155 160
 Asp Thr Gly Trp Arg Asn Phe Phe Val Asp Pro Gln Val Thr Arg Leu
 165 170 175
 Ile Gly Glu Ala Leu Thr Asn Asn Arg Asp Leu Arg Met Ala Ala Leu
 180 185 190
 Asn Val Glu Glu Ala Arg Ala Gln Phe
 195 200

<210> 5743

<211> 432

<212> PRT

<213> Enterobacter cloacae

<400> 5743

Phe Ser Phe Ile Val Arg Val Glu Ser Ala Val Ser Leu Ser Leu Trp
 1 5 10 15
 Gln Gln Cys Leu Ala Arg Leu Gln Asp Glu Leu Pro Ala Thr Glu Phe

```
<210> 5744
<211> 96
<212> PRT
<213> Enterobacter cloacae
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<400> 5744
Phe Asn Lys Arg Gly Ser Gly Ser Ser Val Val Lys Ile Gln Met Ala
1 5 10 15
Leu Thr Thr Leu Leu Arg Phe Glu His Glu Thr Val Met Pro Pro Glu


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<210> 5745
<211> 154
<212> PRT
<213> Enterobacter cloacae
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```
<210> 5746
<211> 75
<212> PRT
<213> Enterobacter cloacae
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```
<210> 5747
<211> 122
<212> PRT
<213> Enterobacter cloacae
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<210> 5749
 <211> 186
 <212> PRT
 <213> Enterobacter cloacae

<400> 5749
 Thr Asn Val Ile His Ala Thr His Ala Ala Gln Phe Ala Lys Ile Phe
 1 5 10 15
 Gly Val Lys Val Asp Asp Phe Ser Pro Ser Leu Ala Ala Glu Ile Ser
 20 25 30
 Ala Met Phe Glu Ala Ile Ala Asn Gly Arg Asn His Ser Ser Val Tyr
 35 40 45
 Glu Tyr Pro Leu Leu Thr Glu Val Gln Ala Gly Ser Phe Cys Pro Val
 50 55 60
 Asn Thr Tyr Thr Glu Arg Asp Ala Lys Glu Trp Val Ser Thr Thr Val
 65 70 75 80
 Lys Ala Ser Asp Ser Ala Phe Trp Leu Glu Val Ser Gly His Ser Met
 85 90 95
 Thr Ala Pro Pro Gly Val Lys Pro Ser Phe Pro Glu Gly Met Leu Ile
 100 105 110
 Leu Ile Asp Pro Glu Gln Asp Val Glu Pro Gly Asp Phe Cys Val Ala
 115 120 125
 Gly Ile Phe Asn Asp Ser Glu Val Thr Phe Lys Lys Tyr Val Arg Glu
 130 135 140
 Asp Gly Lys Pro Trp Leu Glu Pro Leu Asn Pro Ser Pro Arg Tyr Gln
 145 150 155 160
 Ala Ile Glu Cys Asn Glu Asn Cys Arg Ile Ile Gly Lys Val Val Lys
 165 170 175
 Ala Gln Trp Pro Glu Asn Ile Phe Glu
 180 185

<210> 5750
 <211> 156
 <212> PRT
 <213> Enterobacter cloacae

<220>
 <221> UNSURE
 <222> (133)

<220>
 <221> UNSURE
 <222> (135)

<220>
 <221> UNSURE
 <222> (156)

<400> 5750
 Lys Ser Ser Gly Arg Arg Trp Leu Phe Gly Cys Cys Arg Ala Gly Ala
 1 5 10 15
 Val Arg Leu Phe Leu Cys Arg Cys Val Ala Gly Phe Val Leu Leu Gly
 20 25 30
 Gly Pro Phe Pro Ala Ala Val Pro Arg Leu Leu Leu Arg Val Leu Leu
 35 40 45
 Phe Arg Arg Cys Pro Arg Trp Ser Arg Leu Arg Leu Ala Cys Ala Gly
 50 55 60
 Phe Arg Val Ala Val Phe Val Arg Arg Ala Ser Phe Gly Phe Ala Phe
 65 70 75 80
 Cys Ser Cys Pro Ser Val Leu Ser Arg Phe Arg Trp Cys Val Leu Trp
 85 90 95

Ala	Leu	Arg	Arg	Leu	Lys	Arg	Gly	Met	Glu	Gln	Ala	Gln	Pro	Leu	Ser
			100					105					110		
Thr	Phe	Leu	Phe	Asn	Ser	Leu	Met	Pro	Gln	Val	Asp	Leu	Ser	Thr	Pro
		115					120					125			
Val	Arg	Arg	Ala	Xaa	Leu	Xaa	Thr	Leu	Ala	Leu	Pro	Leu	Ile	Ser	His
	130					135					140				
Val	Pro	Gly	Glu	Thr	Leu	Arg	Ile	Tyr	Leu	Arg	Xaa				
145					150					155					

<210> 5751
 <211> 110
 <212> PRT
 <213> Enterobacter cloacae

Phe	Phe	Leu	Ser	Ala	Leu	Gly	Gly	Glu	Asn	Leu	Arg	Val	Val	Asp	Gly
1				5					10					15	
Phe	Leu	Asp	Val	Val	Ala	Leu	Ala	Leu	Phe	Val	Phe	Phe	Phe	Ala	Val
		20						25					30		
Ala	Ser	Leu	Gly	Ser	Ser	Ser	Ser	Ala	Val	Leu	Phe	Leu	Leu	Leu	Phe
		35					40					45			
Arg	Val	Ser	Phe	Phe	Val	Phe	Cys	Cys	Phe	Asp	Gly	Val	Arg	Ala	Gly
	50					55					60				
Leu	Val	Ser	Ala	Trp	Arg	Ala	Leu	Val	Ser	Ala	Leu	Pro	Phe	Leu	Ser
65				70						75				80	
Val	Gly	Arg	Pro	Leu	Val	Ser	Leu	Phe	Val	Pro	Ala	Arg	Arg	Cys	Cys
				85					90					95	
Pro	Gly	Phe	Ala	Gly	Ala	Phe	Cys	Gly	Leu	Cys	Gly	Val			
			100					105					110		

<210> 5752
 <211> 65
 <212> PRT
 <213> Enterobacter cloacae

Gly	His	Arg	Asn	Ser	Gly	His	Trp	Cys	Gly	Thr	Ser	Ser	Arg	Ser	Leu
1			5						10					15	
Leu	Gln	Ile	Pro	Gly	Cys	Leu	Ser	Met	Phe	Ala	Leu	Val	Asp	Val	Asn
			20					25					30		
Ser	Phe	Tyr	Ala	Ser	Cys	Glu	Thr	Val	Phe	Arg	Pro	Asp	Leu	Arg	Gly
		35					40					45			
Lys	Pro	Val	Val	Val	Leu	Ser	Asn	Asn	Asp	Leu	Ser	Gly	Glu	Lys	Cys
	50					55					60				

65

<210> 5753
 <211> 86
 <212> PRT
 <213> Enterobacter cloacae

Ser	Gly	Asp	Lys	Met	Tyr	Ile	Ser	Glu	Ile	Gln	Ile	Glu	Asn	Phe	Arg
1				5					10					15	
Leu	Phe	Asp	Ser	Ala	Glu	Lys	Ala	Phe	Val	Leu	Ser	Leu	Asn	Pro	Gly
			20					25					30		
Leu	Thr	Ala	Leu	Val	Gly	Glu	Asn	Asp	Ala	Gly	Lys	Thr	Ala	Val	Ile
		35					40					45			
Asp	Ala	Leu	Arg	Leu	Val	Leu	Gly	Thr	Arg	Asp	Gln	Glu	Met	Leu	Arg
	50					55					60				

Ile Asp Met Leu Ile Met His His Trp Gly Glu Ala Lys Ser Arg Thr
 65 70 75 80
 Ser Pro Phe Arg Ser
 85

<210> 5754
 <211> 275
 <212> PRT
 <213> Enterobacter cloacae

<400> 5754
 Gly Tyr Asn Met Ala Phe Lys Phe Lys Thr Phe Ala Ala Val Gly Ala
 1 5 10 15
 Leu Ile Gly Ser Leu Ala Leu Val Gly Cys Gly Gln Asp Glu Lys Asp
 20 25 30
 Pro Asn His Ile Lys Val Gly Val Ile Val Gly Ala Glu Gln Gln Val
 35 40 45
 Ala Glu Ala Ala Gln Lys Ile Ala Lys Glu Lys Tyr Gly Leu Asp Val
 50 55 60
 Glu Leu Val Thr Phe Asn Asp Tyr Val Leu Pro Asn Glu Ala Leu Ser
 65 70 75 80
 Lys Gly Asp Ile Asp Ala Asn Ala Phe Gln His Lys Pro Tyr Leu Asp
 85 90 95
 Gln Gln Ile Lys Asp Arg Gly Tyr Lys Leu Val Ala Val Gly Asn Thr
 100 105 110
 Phe Val Tyr Pro Ile Ala Gly Tyr Ser Lys Lys Ile Lys Ser Leu Asp
 115 120 125
 Glu Leu Gln Pro Gly Ser Gln Val Ala Val Pro Asn Asp Pro Thr Asn
 130 135 140
 Leu Gly Arg Ser Leu Leu Leu Gln Lys Val Gly Leu Ile Lys Leu
 145 150 155 160
 Lys Glu Gly Val Gly Leu Leu Pro Thr Val Leu Asp Val Thr Glu Asn
 165 170 175
 Pro Lys Asn Leu Lys Ile Val Glu Leu Glu Ala Pro Gln Leu Pro Arg
 180 185 190
 Ser Leu Asp Asp Ala Gln Ile Ala Leu Ala Val Ile Asn Thr Thr Tyr
 195 200 205
 Ala Ser Gln Ile Gly Leu Thr Pro Ala Lys Asp Gly Ile Phe Val Glu
 210 215 220
 Asp Lys Asp Ser Pro Tyr Val Asn Leu Ile Val Thr Arg Glu Asp Asn
 225 230 235 240
 Lys Asp Ala Glu Asn Val Lys Lys Phe Ile Gln Ala Tyr Gln Ser Glu
 245 250 255
 Glu Val Tyr Gln Glu Ala Asn Lys Val Phe Asn Gly Gly Ala Val Lys
 260 265 270
 Gly Trp
 275

<210> 5755
 <211> 310
 <212> PRT
 <213> Enterobacter cloacae

<400> 5755
 Asn Ser Arg Arg Gly Ser Ser Ser Pro Val Val Lys Thr Pro Val Arg
 1 5 10 15
 Gly Val Ala Ser Leu Lys Ser Asn Pro Asp Gly Ala Ser Cys Leu Gly
 20 25 30
 Pro Met Ala Gly Leu Glu Lys Gln Arg Glu Gln Tyr Ser His Ala Val
 35 40 45
 Gln Ala Leu Ser Asp Pro Asp Arg Thr Arg Leu Val Leu Val Ala Arg

50	55	60
Leu Gln Lys Ser Thr	Leu Gln Glu Val Ala Arg Thr His Asp Glu Leu	
65	70	75
Ala Ala Ile Gly Leu	Lys Asn Gln Tyr Leu Val Ile Asn Gly Val Leu	80
	85	90
Pro Glu Thr Glu Ala Val	Asn Asp Thr Leu Ala Ala Ala Ile Trp Gly	95
	100	105
Arg Glu Gln Glu Ala Leu	Ala Ser Leu Pro Ala Gly Leu Asp Ala Leu	110
	115	120
Pro Thr Asp Thr Leu Phe	Leu Gln Pro Val Asn Met Val Gly Val Ser	125
	130	135
Ala Leu Arg Gly Leu Leu	Thr Ser Gln Pro Glu Thr Ala Ser Phe Ala	140
145	150	155
Glu Val Ser Ala Leu Gln	Lys Pro Ala Ile Ser Ser Leu Ser Ala Leu	160
	165	170
Val Asp Glu Ile Ala Leu	Asn Glu His Gly Leu Ile Met Leu Met Gly	175
	180	185
Lys Gly Gly Val Gly Lys	Thr Thr Met Ala Ala Ala Ile Ala Val Arg	190
	195	200
Leu Ala Glu Met Gly Phe	Asp Val His Leu Thr Thr Ser Asp Pro Ala	205
	210	215
Ala His Leu Ser Thr Thr	Leu Asn Gly Ser Leu Asn Asn Leu Gln Val	220
225	230	235
Ser Arg Ile Asp Pro His	Asp Glu Thr Glu Arg Tyr Arg Gln His Val	240
	245	250
Leu Glu Thr Lys Gly Arg	Asp Leu Asp Glu Ala Gly Lys His Leu Leu	255
	260	265
Glu Glu Asp Leu Arg Ser	Pro Cys Thr Glu Glu Ile Ala Val Phe Gln	270
	275	280
Ala Phe Ser Arg Val Ile	Arg Glu Ala Gly Lys Arg Phe Val Val Met	285
	290	295
His Thr Ser Ser Pro Ser		300
305	310	

<210> 5756

<211> 61

<212> PRT

<213> Enterobacter cloacae

<400> 5756

Asn Arg Asn Thr Thr	Ser Ala Glu Lys Val Glu Asn Val Val Lys Pro
1	5 10 15
Pro Gln Lys Pro Val Val	Ile Arg Thr Phe His Ile Gly Ser Met Leu
	20 25 30
Val Met Arg Leu Asn Gln	Ala Ser Pro Ile Pro Ile Ile Asn Ala Pro
	35 40 45
Ile Arg Phe Ala Ala Ser	Val Pro Ile Gly Met Ala
	50 55 60

<210> 5757

<211> 315

<212> PRT

<213> Enterobacter cloacae

<400> 5757

Cys Arg Gly Leu Asn Arg	Met Leu Lys Ser His Arg Ala Thr Leu Pro
1	5 10 15
Val Pro Pro Pro Ile Lys	Thr Ala Ile Ser Ser Cys Asn Thr Val Asn
	20 25 30
Thr Cys Tyr Leu Leu Cys	Lys Cys Val Glu Cys Asn Ala Val Phe Asp
	35 40 45

Arg Glu Thr Ile Met Tyr Val Ala Val Gly Gln Phe Ala Val Thr Pro
 50 55 60
 Asp Trp Asn Glu Asn Ala Glu Lys Cys Val Ser Leu Met His Ala Ala
 65 70 75 80
 Lys Gln Lys Gly Ala Ser Leu Leu Val Leu Pro Glu Ala Leu Leu Ala
 85 90 95
 Arg Asp Asp Gly Asp Pro Asp Leu Ser Val Lys Ser Ala Gln Thr Leu
 100 105 110
 Glu Gly Ala Phe Leu Lys Arg Leu Leu Ala Glu Ser Val Gly Asn Thr
 115 120 125
 Leu Thr Thr Ile Leu Thr Val His Ile Pro Ser Ser Pro Gly Arg Ala
 130 135 140
 Val Asn Thr Leu Val Ala Ile Arg Glu Gly Ala Ile Val Ala Ser Tyr
 145 150 155 160
 Ala Lys Leu His Leu Tyr Asp Ala Phe Ser Val Gln Glu Ser Arg Leu
 165 170 175
 Val Asp Pro Gly Ser Val Ile Pro Pro Leu Ile Glu Val Glu Gly Phe
 180 185 190
 Lys Val Gly Leu Met Thr Cys Tyr Asp Ile Arg Phe Pro Glu Leu Ala
 195 200 205
 Leu Asn Leu Ala Leu Gln Gly Ala Glu Val Leu Val Leu Pro Ala Ala
 210 215 220
 Trp Val Lys Gly Pro Leu Lys Glu His His Trp Ala Thr Leu Leu Ala
 225 230 235 240
 Ala Arg Ala Leu Asp Thr Thr Cys Tyr Val Val Ala Ala Gly Glu Cys
 245 250 255
 Gly Asn Lys Asn Ile Gly Gln Ser Arg Val Val Asp Pro Leu Gly Val
 260 265 270
 Thr Val Val Ala Ala Ala Glu Thr Pro Ala Leu Leu Leu Thr Glu Ile
 275 280 285
 Ile Ser Ala Arg Ile Ala Leu Ala Arg Gln Gln Leu Pro Val Leu Arg
 290 295 300
 Asn Arg Arg Phe Ala Pro Pro Gln Leu Met
 305 310 315

<210> 5758

<211> 132

<212> PRT

<213> Enterobacter cloacae

<400> 5758

Gln Val Leu Thr Val Leu Gln Leu Leu Ile Ala Val Phe Ile Gly Gly
 1 5 10 15
 Gly Thr Gly Ser Val Ala Arg Trp Leu Leu Ser Met Arg Phe Asn Pro
 20 25 30
 Leu His Gln Ala Ile Pro Met Gly Thr Leu Ala Ala Asn Leu Ile Gly
 35 40 45
 Ala Phe Ile Ile Gly Met Gly Leu Ala Trp Phe Asn Arg Met Thr Asn
 50 55 60
 Ile Asp Pro Met Trp Lys Val Leu Ile Thr Thr Gly Phe Cys Gly Gly
 65 70 75 80
 Leu Thr Thr Phe Ser Thr Phe Ser Ala Glu Val Val Phe Leu Phe Gln
 85 90 95
 Glu Gly Arg Met Gly Trp Ala Leu Thr Asn Ile Ala Val Asn Met Leu
 100 105 110
 Gly Ser Phe Ala Met Thr Ala Ile Ala Phe Trp Leu Phe Ser Ser Ala
 115 120 125
 Ser Gly His
 130

<210> 5759

<211> 152
 <212> PRT
 <213> Enterobacter cloacae

<400> 5759

Leu	His	Met	Asn	Ile	Leu	Ile	Thr	Thr	Thr	Ala	Phe	Thr	Ala	Leu	Phe
1				5					10					15	
Cys	Gly	Ala	Ala	Phe	Ala	Gln	Ser	Ser	Asp	Ile	Ala	His	Glu	Ala	His
			20					25					30		
Arg	Phe	Val	Asn	Asn	Ala	Ser	Ala	Val	Ser	His	Val	Asn	Ser	Ser	Thr
		35				40						45			
His	Glu	Asn	Leu	Pro	Asp	Arg	Val	Asn	Lys	Asn	Asn	Thr	Pro	Ser	Phe
	50					55					60				
Ser	Glu	Met	Asn	Glu	His	Glu	Arg	Ala	Ile	Val	Ala	His	Ser	Phe	Met
65					70					75					80
Asn	Asn	Ser	Ala	Ser	Tyr	Ala	His	Gln	Lys	Met	Ile	Glu	Glu	His	Lys
				85					90					95	
Lys	Met	Leu	Ser	Gly	Ser	Asp	Ala	Asn	Ser	Lys	Thr	Ser	Ser	Ser	Ser
			100					105					110		
Phe	Asn	Glu	Leu	Asn	Ala	Gly	Glu	Lys	Ala	Ala	Leu	Val	His	Glu	Gln
		115					120					125			
Val	Asn	Asn	Ala	Gly	Ala	Glu	Ala	His	Gln	Thr	Gln	Ala	Arg	Lys	Leu
	130					135					140				
Arg	Gly	Leu	Tyr	Ser	Thr	Arg									
145					150										

<210> 5760
 <211> 279
 <212> PRT
 <213> Enterobacter cloacae

<400> 5760

Thr	Pro	Pro	Cys	Thr	Leu	Val	Leu	Pro	Ala	Gly	Trp	Gly	Arg	Pro	Ile
1				5					10					15	
Ala	Gly	Ala	Gly	Gly	Arg	Met	Gly	Arg	Gln	Leu	Ile	Gln	Ala	Ala	Leu
			20					25					30		
Gln	Met	Asp	Gly	Val	Ala	Leu	Gly	Ala	Ala	Leu	Glu	Arg	Glu	Gly	Ser
		35					40					45			
Ser	Leu	Leu	Gly	Ala	Asp	Ala	Gly	Glu	Leu	Ala	Gly	Ala	Gly	Lys	Thr
	50					55					60				
Gly	Val	Thr	Val	Gln	Ser	Ser	Leu	Glu	Ala	Val	Lys	Glu	Asp	Phe	Asp
65				70					75						80
Val	Phe	Ile	Asp	Phe	Thr	Arg	Pro	Glu	Gly	Thr	Leu	Ala	His	Leu	Ala
			85						90					95	
Phe	Cys	Arg	Gln	His	Gly	Lys	Gly	Met	Val	Ile	Gly	Thr	Thr	Gly	Phe
			100					105					110		
Asp	Asp	Ala	Gly	Lys	Gln	Ala	Ile	Gln	Asp	Ala	Ala	Thr	Asp	Ile	Ala
		115					120					125			
Ile	Val	Phe	Ala	Ala	Asn	Phe	Ser	Val	Gly	Val	Asn	Val	Met	Leu	Lys
	130					135					140				
Leu	Leu	Glu	Lys	Ala	Ala	Lys	Val	Met	Gly	Asn	Tyr	Thr	Asp	Ile	Glu
145					150					155					160
Ile	Val	Glu	Ala	His	His	Arg	Tyr	Lys	Val	Asp	Ala	Pro	Ser	Gly	Thr
			165						170					175	
Ala	Leu	Ala	Met	Gly	Glu	Ala	Ile	Ala	His	Ala	Leu	Asp	Arg	Asp	Leu
			180					185					190		
Lys	Glu	Cys	Ala	Val	Tyr	Thr	Arg	Glu	Gly	His	Thr	Gly	Glu	Arg	Val
		195					200					205			
Pro	Gly	Thr	Ile	Gly	Phe	Ala	Thr	Val	Arg	Ala	Gly	Asp	Ile	Val	Gly
	210					215					220				
Glu	His	Thr	Ala	Met	Phe	Ala	Asp	Ile	Gly	Glu	Arg	Val	Glu	Ile	Thr

225 230 235 240
 His Lys Ala Ser Ser Arg Met Thr Phe Ala Asn Gly Ala Val Arg Ala
 245 250 255
 Ala Leu Trp Leu Asn Ala Lys Glu Lys Gly Leu Phe Asp Met Arg Asp
 260 265 270
 Val Leu Asp Leu Asn Asn Leu
 275

<210> 5761
 <211> 130
 <212> PRT
 <213> Enterobacter cloacae

<400> 5761
 Tyr Ala Asn Lys Val Ser Glu Tyr Ser Leu Glu Gly Val Leu Ile Lys
 1 5 10 15
 Ser Ala Leu Leu Val Leu Glu Asp Gly Thr Gln Phe Ile Gly Arg Ala
 20 25 30
 Ile Gly Ala Thr Gly Ser Ala Val Gly Glu Val Val Phe Asn Thr Ser
 35 40 45
 Met Thr Gly Tyr Gln Glu Ile Leu Thr Asp Pro Ser Tyr Ser Arg Gln
 50 55 60
 Ile Val Thr Leu Thr Tyr Pro His Ile Gly Asn Val Gly Thr Asn Ala
 65 70 75 80
 Ala Asp Glu Glu Ser Ser Gln Val His Ala Gln Gly Leu Val Ile Arg
 85 90 95
 Asp Leu Pro Leu Ile Ala Ser Asn Phe Arg Asn Thr Glu Asp Leu Ser
 100 105 110
 Ser Tyr Leu Lys Arg His Asn Ile Val Ala Ile Ala Asp Ile Asp Thr
 115 120 125
 Arg Lys
 130

<210> 5762
 <211> 423
 <212> PRT
 <213> Enterobacter cloacae

<220>
 <221> UNSURE
 <222> (417)

<400> 5762
 Cys Met Glu Phe Ser Val Lys Ser Gly Ser Pro Glu Lys Gln Arg Ser
 1 5 10 15
 Ala Cys Ile Val Val Gly Val Phe Glu Pro Arg Arg Leu Ser Pro Ile
 20 25 30
 Ala Glu Gln Leu Asp Lys Ile Ser Asp Gly Tyr Ile Ser Ala Leu Leu
 35 40 45
 Arg Arg Gly Glu Leu Glu Gly Lys Pro Gly Gln Thr Leu Leu Leu His
 50 55 60
 His Val Pro Asn Val Leu Ser Glu Arg Ile Leu Leu Ile Gly Cys Gly
 65 70 75 80
 Lys Glu Arg Glu Leu Asp Glu Arg Gln Tyr Lys Gln Val Ile Gln Lys
 85 90 95
 Thr Ile Asn Thr Leu Asn Asp Thr Gly Ser Met Glu Ala Val Cys Phe
 100 105 110
 Leu Thr Glu Leu His Val Lys Gly Arg Asn Thr Tyr Trp Lys Val Arg
 115 120 125
 Gln Ala Val Glu Thr Ala Lys Glu Ser Leu Tyr Ser Phe Asp Gln Leu
 130 135 140

Lys	Thr	Thr	Lys	Ser	Glu	Pro	Arg	Arg	Pro	Leu	Arg	Lys	Met	Val	Phe
145					150					155					160
Asn	Val	Pro	Thr	Arg	Arg	Glu	Leu	Thr	Ser	Gly	Glu	Arg	Ala	Ile	Gln
				165					170					175	
His	Gly	Leu	Ala	Ile	Ala	Ala	Gly	Ile	Lys	Ala	Ala	Lys	Asp	Leu	Gly
			180					185					190		
Asn	Met	Pro	Pro	Asn	Ile	Cys	Asn	Ala	Ala	Tyr	Leu	Ala	Ser	Gln	Ala
		195					200					205			
Arg	Gln	Leu	Ala	Asp	Ala	Tyr	Ser	Lys	Asn	Val	Ile	Thr	Arg	Val	Ile
	210					215					220				
Gly	Glu	Gln	Gln	Met	Lys	Glu	Leu	Gly	Met	His	Ser	Tyr	Leu	Ala	Val
225					230					235					240
Gly	Asn	Gly	Ser	Gln	Asn	Glu	Ser	Leu	Met	Ser	Val	Ile	Glu	Tyr	Lys
				245					250					255	
Gly	Asn	Pro	Ser	Glu	Asp	Ala	Arg	Pro	Ile	Val	Leu	Val	Gly	Lys	Gly
			260					265					270		
Leu	Thr	Phe	Asp	Ser	Gly	Gly	Ile	Ser	Ile	Lys	Pro	Ser	Glu	Gly	Met
		275					280					285			
Asp	Glu	Met	Lys	Tyr	Asp	Met	Cys	Gly	Ala	Ala	Ala	Val	Tyr	Gly	Val
	290					295					300				
Met	Arg	Met	Val	Ala	Glu	Leu	Gln	Leu	Pro	Ile	Asn	Val	Ile	Gly	Val
305					310					315					320
Leu	Ala	Gly	Cys	Glu	Asn	Met	Pro	Gly	Gly	Arg	Ala	Tyr	Arg	Pro	Gly
				325					330					335	
Asp	Val	Leu	Thr	Thr	Met	Ser	Gly	Gln	Thr	Val	Glu	Val	Leu	Asn	Thr
			340					345					350		
Asp	Ala	Glu	Gly	Arg	Leu	Val	Leu	Cys	Asp	Val	Leu	Thr	Tyr	Val	Glu
		355					360					365			
Arg	Phe	Glu	Pro	Glu	Ala	Val	Ile	Asp	Val	Ala	Thr	Leu	Thr	Gly	Ala
	370					375					380				
Cys	Val	Ile	Ala	Leu	Gly	His	His	Ile	Thr	Gly	Leu	Met	Ser	Asn	His
385					390					395					400
Asn	Pro	Val	Pro	His	Gly	Pro	Ile	Gly	Ala	Phe	Val	Thr	Thr	Ala	Val
				405					410					415	
Xaa	Gly	Pro	Gln	Tyr	Trp	Val									
			420												

<210> 5763

<211> 701

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (86)

<400> 5763

Pro	Pro	Gly	Ala	Ala	Phe	Ala	Ala	Ser	Thr	Thr	Glu	Asp	Thr	Val	Val
1				5					10					15	
Val	Asp	Gly	Gly	Phe	Asp	Asn	Thr	Gln	Asp	Leu	Ser	Ala	Ser	Gln	Asp
			20					25					30		
Gln	Asp	Tyr	Ser	Val	Lys	Thr	Thr	Thr	Thr	Gly	Thr	Lys	Leu	Leu	Leu
		35					40					45			
Val	Pro	Arg	Asp	Ile	Pro	Gln	Ser	Val	Ser	Val	Ile	Ser	Gln	Gln	Arg
						55					60				
Met	Ala	Asp	Gln	Asn	Leu	Gln	Ser	Ile	Gly	Gln	Val	Leu	Thr	Asn	Thr
65					70					75					80
Thr	Gly	Ile	Thr	Ala	Xaa	Val	Gln	Asp	Ser	Asp	Arg	Thr	Val	Phe	Tyr
				85					90					95	
Ser	Arg	Gly	Phe	Phe	Val	Ser	Asn	Tyr	Ala	Tyr	Asp	Asp	Leu	Pro	Thr
			100					105					110		

Ser	Ile	Ser	Glu	Val	Trp	Asn	Phe	Gly	Asp	Thr	Ala	Ala	Asp	Thr	Ala
		115					120					125			
Ile	Tyr	Asp	Arg	Ile	Glu	Val	Val	Arg	Gly	Ala	Thr	Gly	Leu	Met	Ser
	130					135					140				
Gly	Thr	Gly	Asn	Pro	Ala	Ala	Tyr	Val	Asn	Met	Val	Arg	Lys	His	Ala
145					150					155					160
Asp	Ser	Pro	Glu	Phe	Lys	Gly	Asn	Val	Ser	Ala	Ser	Tyr	Gly	Ser	Trp
				165					170					175	
Asp	Lys	Gln	Arg	Tyr	Val	Leu	Asp	Leu	Gln	Ala	Pro	Leu	Val	Glu	Ser
		180						185					190		
Gly	Lys	Val	Arg	Gly	Arg	Leu	Ile	Thr	Gly	Tyr	Gln	Asp	Asn	Asp	Ser
	195						200					205			
Phe	Val	Asp	Asn	Tyr	His	Tyr	Arg	Lys	Lys	Phe	Leu	Tyr	Gly	Val	Met
	210					215					220				
Asp	Ala	Asp	Val	Thr	Asp	Ser	Thr	Thr	Leu	Ser	Val	Gly	Tyr	Glu	Tyr
225					230					235					240
Gln	Glu	Ser	His	Thr	Ala	Asp	Pro	Thr	Trp	Gly	Gly	Leu	Pro	Thr	Trp
				245					250					255	
Tyr	Ser	Asp	Gly	Ser	Lys	Asn	His	Tyr	Asn	Arg	Ser	Gln	Thr	Val	Ala
		260						265					270		
Pro	Asp	Trp	Ala	Tyr	Ser	Asp	Lys	Asp	Ser	Thr	Arg	Ile	Phe	Ala	Asn
	275						280					285			
Leu	Thr	Gln	Arg	Phe	Asp	Asn	Gly	Trp	Glu	Ala	His	Ile	Asn	Gly	Met
	290					295					300				
His	Ala	Glu	Thr	Asn	Phe	Asp	Ser	Lys	Leu	Met	Tyr	Met	Ser	Gly	Tyr
305					310					315					320
Pro	Asp	Lys	Glu	Thr	Gly	Ala	Gly	Leu	Val	Gly	Tyr	Gly	Gly	Trp	Asn
				325					330					335	
Arg	Gly	Glu	Arg	Lys	Gln	Asp	Ala	Val	Asp	Ala	Phe	Leu	Arg	Gly	Gly
				340				345					350		
Phe	Asp	Leu	Phe	Gly	Arg	Gln	His	Glu	Met	Met	Phe	Gly	Gly	Ser	Phe
	355						360					365			
Ser	Arg	Gln	Arg	Asn	His	Tyr	Asp	Asn	Ser	Met	Pro	Asp	Ala	Val	Tyr
	370					375					380				
Gly	Met	Val	Asp	Val	Gly	Asn	Phe	Lys	Asn	Trp	Asn	Gly	Asn	Ile	Ala
385					390					395					400
Asp	Pro	Gln	Trp	Thr	Pro	Trp	Lys	Leu	Tyr	Ser	Lys	Asp	Asp	Ile	Arg
				405					410					415	
Gln	Ser	Ser	Ala	Tyr	Ser	Ser	Ala	Arg	Phe	Ser	Leu	Ala	Asp	Pro	Leu
			420					425					430		
His	Leu	Ile	Leu	Gly	Ala	Arg	Tyr	Thr	Gln	Tyr	Asn	Ile	Arg	Tyr	Asn
	435						440					445			
Pro	Ala	Gly	Ser	Pro	Asn	Thr	Arg	Leu	Glu	Ser	Thr	Lys	Asp	Asp	Val
	450					455					460				
Thr	Pro	Tyr	Ala	Gly	Leu	Val	Tyr	Asp	Ile	Asn	Glu	Asp	Trp	Ser	Thr
465					470					475					480
Tyr	Val	Ser	Tyr	Thr	Ser	Ile	Phe	Gln	Pro	Gln	Asp	Asn	Arg	Asp	Ala
				485					490					495	
Ser	Gly	Arg	Tyr	Leu	Asp	Pro	Thr	Thr	Gly	Lys	Ser	Tyr	Gln	Ala	Gly
			500					505					510		
Val	Lys	Ala	Asp	Trp	Phe	Asn	Thr	Arg	Leu	Asn	Asn	Ser	Leu	Ala	Ile
	515						520					525			
Phe	Arg	Ile	Glu	His	Asp	Asn	Val	Ala	Ser	Asn	Thr	Tyr	Thr	Tyr	Leu
	530					535					540				
Pro	Ser	Gly	Glu	Ser	Ile	Tyr	Glu	Ser	Leu	Asp	Gly	Val	Val	Ser	Lys
545					550					555					560
Gly	Val	Glu	Phe	Glu	Leu	Asn	Gly	Ala	Leu	Thr	Asp	Asn	Trp	Gln	Leu
				565					570					575	
Thr	Phe	Gly	Ala	Thr	Arg	Tyr	Ile	Ala	Glu	Asp	Lys	Asn	Gly	Asn	Ala
			580					585					590		
Val	Ser	Ser	Asp	Gln	Pro	Arg	Thr	Thr	Met	Lys	Leu	Phe	Thr	Arg	Tyr

595					600					605					
Gln	Leu	Pro	Met	Leu	Pro	Glu	Leu	Thr	Val	Gly	Gly	Gly	Val	Asn	Trp
610						615					620				
Gln	Asn	Lys	Val	Trp	Thr	Asp	Val	Glu	Gly	Gly	Pro	Ala	Gly	Arg	Ser
625					630					635					640
Arg	Ala	Glu	Gln	Gly	Ser	Tyr	Gly	Leu	Val	Asn	Leu	Phe	Ser	Arg	Tyr
				645						650					655
Gln	Val	Thr	Lys	Asp	Phe	Ala	Val	Gln	Ala	Asn	Val	Asn	Asn	Leu	Phe
			660					665					670		
Asp	Lys	Glu	Tyr	Tyr	Asp	Tyr	Val	Gly	Ser	Tyr	Ala	Val	Tyr	Gly	Ala
		675					680					685			
Pro	Leu	Asn	Val	Ser	Val	Ser	Ala	Ser	Tyr	Asp	Phe				
690						695					700				

<210> 5764

<211> 164

<212> PRT

<213> Enterobacter cloacae

<220>

<221>UNSURE

<222>(115)

<400> 5764

Trp	Thr	Leu	Ser	Met	Ser	Asn	Thr	Leu	Gln	Pro	Arg	Arg	Ala	Arg	Ala
1				5					10					15	
Ser	Tyr	Ser	Met	Asp	Phe	Lys	Leu	Ala	Leu	Val	Glu	Lys	Ser	Tyr	Gln
			20					25					30		
Pro	Gly	Ala	Cys	Val	Ala	Arg	Leu	Ala	Arg	Asp	Asn	Gly	Ile	Asn	Asp
		35					40					45			
Asn	Leu	Leu	Phe	Thr	Trp	Arg	Gln	Arg	Tyr	Arg	His	Leu	Leu	Pro	Asp
		50				55					60				
Glu	Ile	Gln	Arg	Ser	Ile	Arg	Glu	Gln	Asp	Ser	Val	Ile	Pro	Val	Val
65					70					75				80	
Leu	Pro	Asp	Met	Ala	Leu	Ser	His	His	Ala	Glu	Pro	His	Tyr	Glu	Thr
				85					90					95	
Ala	Ala	Pro	Ala	Cys	Arg	Glu	Ala	Met	Thr	Cys	Asp	Val	Thr	Val	Gly
			100					105						110	
Gly	Gly	Xaa	Leu	Arg	Leu	Ser	Gly	Gly	Phe	Ile	Thr	Leu	His	Phe	Leu
		115					120					125			
Lys	Thr	Leu	Ile	Arg	Ala	Pro	Asp	Arg	Gly	Gly	Ser	Arg	Met	Ile	Pro
	130					135					140				
Leu	Thr	Val	Arg	Ala	Leu	Arg	Ile	Leu	Ala	Gly	Leu	Pro	Gly	Phe	Pro
145					150					155					160
Lys	Asn	Ala													

<210> 5765

<211> 242

<212> PRT

<213> Enterobacter cloacae

<220>

<221>UNSURE

<222>(183)

<220>

<221>UNSURE

<222>(217)

<400> 5765

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Ile Ser Pro Pro Val Asn Thr Leu Ala Leu Gly Tyr Ala Ala Phe Arg
1      5      10
Phe Gly Arg Arg Glu Ala Asp Ser Lys Arg Thr Phe Gly Tyr Leu Arg
      20      25      30
Phe Glu Val Ile Ala Gly Phe Phe Asn Ala Leu Thr Leu Phe Ala Ile
      35      40      45
Val Ala Trp Ile Ala Tyr Glu Ala Trp Glu Arg Leu Gln Ala Pro Pro
      50      55      60
Ala Ile Leu Ala Gly Pro Met Leu Ile Val Ala Ile Val Gly Leu Leu
65      70      75      80
Val Asn Val Leu Val Leu Trp Ile Met Thr Arg Gly Glu Thr Asp His
      85      90      95
Val Asn Val Lys Gly Ala Ile Leu His Val Met Gly Asp Leu Leu Gly
      100      105      110
Ser Val Gly Ala Ile Val Ala Ala Ile Val Ile Tyr Tyr Thr Gly Trp
      115      120      125
Thr Pro Ile Asp Pro Ile Leu Ser Val Leu Val Ala Ala Leu Val Leu
130      135      140
Arg Ser Ala Trp Lys Leu Leu Ala Lys Ser Leu His Ile Leu Leu Glu
145      150      155      160
Gly Ala Pro Glu Asn Ala Ser Pro Asp Lys Val Lys Gln Arg Leu Ile
      165      170      175
Asn Ser Val Gln Gly Leu Xaa Ala Val Ser His Ile His Val Trp Gln
      180      185      190
Ile Thr Ser Gly Arg Ile Met Ala Thr Leu Glu Val Arg Ala Lys Glu
      195      200      205
Asp Val Asp Val Lys Asp Val Val Xaa Leu Val Lys Gln Glu Leu Tyr
210      215      220
Glu His Phe Lys Asn Arg Thr Arg Asn Cys Gly His Arg Leu Glu Leu
225      230      235      240
Arg

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<210> 5766

<211> 130

<212> PRT

<213> Enterobacter cloacae

<400> 5766

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Cys Thr Thr Asn Ser Gly Gly Arg Thr Ile Met Ser Asn Thr Ser Asp
1      5      10
Cys Gly Asn Val Arg Asn Cys Ser Ala Thr Asp Tyr Gly Thr Glu Pro
      20      25      30
Asp Leu Ser Met Leu Ser Gln Asn Glu Ile Gly Leu Leu Ser Glu Ile
      35      40      45
Phe His Leu Leu Gly Asp Gln Ser Arg Leu Arg Ile Leu Leu Tyr Cys
      50      55      60
Met Arg Gly Ser Val Ser Val Gly Asp Ile Ala Glu Ser Leu Gln Leu
65      70      75      80
Ser Gln Ser Leu Val Ser His His Leu Arg Leu Leu Arg Gly Ala Arg
      85      90      95
Leu Val Arg Gly Glu Arg Lys Gly Lys Tyr Ile Phe Tyr Ser Ile Met
      100      105      110
Asp Gln His Val Ser His Val Leu Gln Asp Met Ala Phe His Ile Ala
      115      120      125
Glu
      130

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<210> 5767

<211> 95

<212> PRT

<213> Enterobacter cloacae

<400> 5767

Lys	Thr	Val	Asn	Val	Asp	Trp	Phe	Ile	Ala	Glu	Arg	Ser	Gly	Lys	Val
1				5					10					15	
Arg	Ile	Leu	Lys	Glu	His	Pro	Arg	Lys	Asn	Lys	Ala	Ala	Ile	Ile	Leu
			20					25					30		
Glu	Tyr	Leu	Lys	Ala	Ser	Ile	Arg	Ala	Lys	Val	Glu	His	Pro	Phe	Arg
		35					40					45			
Val	Ile	Ile	Arg	Gln	Phe	Gly	Phe	Ile	Lys	Ala	Arg	Tyr	Lys	Gly	Leu
	50					55					60				
Met	Lys	Asn	Asp	Ser	Gln	Leu	Ala	Met	Leu	Phe	Thr	Leu	Ala	Asn	Leu
65					70					75					80
Phe	Lys	Val	Asp	Gln	Met	Ile	Arg	Arg	Gln	Thr	Lys	Ser	Ala		
				85					90					95	

<210> 5768

<211> 145

<212> PRT

<213> Enterobacter cloacae

<400> 5768

Pro	Ala	Thr	Ile	Val	Ile	Val	Ser	Leu	Pro	Asp	Thr	Tyr	Ser	Ser	Val
1				5					10					15	
Arg	Glu	Ala	Ile	Phe	Val	Pro	Phe	Gln	Arg	Thr	Gly	Val	Asn	Met	Gln
			20					25					30		
Lys	Ile	Val	Ile	Val	Ala	Asn	Gly	Ala	Ala	Tyr	Gly	Ser	Glu	Ser	Ile
		35					40					45			
Arg	Asn	Ser	Leu	Arg	Gln	Ala	Ile	Ala	Gln	Arg	Glu	Lys	Glu	Arg	Glu
	50					55					60				
Gln	Glu	Gln	Arg	His	Lys	Lys	Thr	Asp	Ala	Val	Thr	Ala	Gly	Gly	
65					70				75						80
Cys	Arg	Arg	Gly	Lys	Asn	Pro	Gln	Arg	Ala	Thr	Thr	Ile	Asn	Lys	Ser
				85					90					95	
Arg	Arg	Ser	Arg	Pro	Arg	Lys	Thr	Asn	Arg	Thr	Asn	Arg	Ala	Lys	Pro
			100					105					110		
Glu	Pro	Thr	Gly	Glu	Ala	Lys	Pro	Gly	Ser	Arg	Arg	Lys	Lys	Glu	Arg
		115					120					125			
Lys	Lys	Glu	Arg	Arg	Arg	Ser	Arg	Gln	Lys	Gly	Arg	Asn	Pro	Ala	Gly
		130				135					140				

145

<210> 5769

<211> 170

<212> PRT

<213> Enterobacter cloacae

<400> 5769

Met	Leu	Gly	Lys	Gln	Val	Ala	Gln	Cys	Val	Pro	Ala	Gly	Ser	Thr	Leu
1				5					10					15	
Phe	Leu	Asp	Ala	Gly	Ser	Thr	Leu	Leu	Ala	Val	Ala	Ser	Phe	Leu	Gln
			20					25					30		
Gly	Pro	Leu	Thr	Ile	Ile	Thr	Pro	Ser	Leu	Asp	Ile	Ala	Gln	Gln	Val
		35					40					45			
Ser	Asp	Arg	Glu	Gly	Ile	Asp	Leu	Ile	Leu	Leu	Gly	Gly	Lys	Trp	Asp
	50					55					60				
Gln	Lys	Gln	Arg	Leu	Phe	Ala	Gly	Ser	Ala	Thr	Leu	Ser	Leu	Leu	Ser
65					70					75					80
Arg	Tyr	Arg	Ala	Asp	Ile	Ala	Ile	Leu	Gly	Ala	Cys	Ala	Ile	His	Ala
				85					90					95	

Glu	Leu	Gly	Leu	Ser	Ala	Ser	Gln	Glu	Ala	Asp	Ala	Glu	Val	Lys	Arg
			100					105					110		
Ala	Met	Leu	Ala	Ala	Ser	Gln	Ala	His	Trp	Val	Val	Ala	Asp	His	Leu
		115					120					125			
Lys	Leu	Asn	Gln	Cys	Glu	Pro	Tyr	Leu	Val	Ser	Gly	Leu	Ser	Glu	Ile
	130					135					140				
His	Gln	Leu	Phe	Leu	Asp	Arg	Pro	Trp	Ala	Glu	Leu	Gly	Asp	His	Ser
145					150					155					160
Ala	Val	Gln	Val	Thr	Val	Cys	Ala	His							
				165					170						

<210> 5770

<211> 381

<212> PRT

<213> Enterobacter cloacae

<400> 5770

Ile	Val	Pro	Gly	Gln	Ser	Ser	Gly	Thr	Ile	Ala	Pro	Cys	Arg	Leu	Pro
1				5					10					15	
Phe	Ala	His	Ile	Asn	Val	Glu	Lys	Val	Met	Asn	Lys	Val	Lys	Thr	Met
			20					25					30		
Asn	Ile	Ala	Leu	Ile	Gly	Tyr	Gly	Phe	Val	Gly	Lys	Thr	Phe	His	Ala
		35					40					45			
Pro	Leu	Ile	Gln	Ser	Val	Asp	Gly	Leu	Lys	Leu	Ala	Val	Ile	Ser	Ser
	50					55					60				
Arg	Asp	Glu	Glu	Lys	Val	Lys	Arg	Asp	Leu	Pro	Asp	Val	Leu	Val	Val
65					70					75					80
Ala	Thr	Pro	Glu	Glu	Ala	Ile	Gln	His	Pro	Asp	Ile	Asp	Leu	Val	Val
				85					90					95	
Ile	Ala	Ser	Pro	Asn	Ala	Thr	His	Ala	Pro	Leu	Ala	Thr	Leu	Ala	Leu
			100					105					110		
Asn	Ala	Gly	Lys	His	Val	Val	Val	Asp	Lys	Pro	Phe	Thr	Leu	Asp	Met
		115					120					125			
Gln	Glu	Ala	Arg	Asp	Leu	Ile	Ala	Leu	Ala	Glu	Glu	Lys	Gln	Leu	Leu
	130					135					140				
Leu	Ser	Val	Phe	His	Asn	Arg	Arg	Trp	Asp	Ser	Asp	Phe	Leu	Gly	Ile
145					150					155					160
Lys	Gln	Val	Ile	Ala	Gln	Gly	Ser	Ile	Gly	Lys	Val	Lys	His	Phe	Glu
				165					170					175	
Ser	His	Ile	Asp	Arg	Phe	Arg	Pro	Glu	Val	Arg	Val	Arg	Trp	Arg	Glu
			180					185					190		
Gln	Asn	Val	Pro	Gly	Ser	Gly	Leu	Trp	Phe	Asp	Leu	Gly	Pro	His	Met
		195					200					205			
Ile	Asp	Gln	Thr	Leu	Gln	Leu	Phe	Gly	Leu	Pro	Gln	Ser	Val	Gln	Gly
	210					215					220				
Asn	Ile	Ala	Thr	Leu	Arg	Asp	Gly	Ala	Glu	Ile	Asn	Asp	Trp	Ala	His
225					230					235					240
Val	Val	Leu	Asn	Tyr	Pro	Glu	His	Lys	Val	Val	Leu	His	Cys	Ser	Met
				245					250					255	
Leu	Val	Ala	Gly	Gly	Val	Ser	Arg	Phe	Thr	Ile	His	Gly	Asn	Lys	Ala
		260						265					270		
Ser	Val	Val	Lys	Ala	Arg	Ile	Asp	Gln	Gln	Glu	Ala	Gln	Leu	Leu	Ala
		275					280					285			
Gly	Val	Ile	Pro	Gly	Ser	Glu	Ser	Trp	Gly	Glu	Asp	Ser	Asp	Ala	Met
	290					295					300				
Val	Leu	Leu	Asn	Ala	Gln	Arg	Glu	Ala	Ser	Ala	Ile	Pro	Ala	Pro	Lys
305					310					315					320
Gly	Asp	Gln	Arg	Gln	Tyr	Tyr	Ile	Asn	Val	Arg	Asp	Ala	Leu	Asn	Gly
				325					330					335	
Lys	Ile	Asp	Asn	Pro	Val	Pro	Pro	Val	Glu	Ala	Leu	Ala	Val	Met	Ala
			340					345					350		

Val Leu Glu Ser Ala Val Lys Ser Ser Glu Thr Gly Thr Thr His Glu
 355 360 365
 Leu Asp Leu Thr Ala His Asp Arg Ala Gln Leu Gln
 370 375 380

<210> 5771

<211> 254

<212> PRT

<213> Enterobacter cloacae

<400> 5771

Thr Val Lys Pro Lys Ser Pro Arg Leu Phe Ala Ile Ser Thr Pro Ala
 1 5 10 15
 Ala Leu Ala Lys Ser Lys Arg Lys Lys Glu Arg Ile Met Ser Thr Pro
 20 25 30
 Ala Asn Phe Asn Gly Ala Arg Pro Val Ile Asp Val Asn Asp Ala Val
 35 40 45
 Met Leu Leu Ile Asp His Gln Ser Gly Leu Phe Gln Thr Val Gly Asp
 50 55 60
 Met Pro Met Pro Glu Leu Arg Ala Arg Ala Ala Leu Ala Lys Ile
 65 70 75 80
 Ala Ser Leu Ala Lys Ile Pro Val Ile Thr Thr Ala Ser Val Pro Gln
 85 90 95
 Gly Pro Asn Gly Pro Leu Ile Pro Glu Ile His Ala Asn Ala Pro His
 100 105 110
 Ala Gln Tyr Val Ala Arg Lys Gly Glu Ile Asn Ala Trp Asp Asn Pro
 115 120 125
 Glu Phe Val Ala Ala Val Lys Ala Thr Gly Arg Lys Thr Leu Ile Ile
 130 135 140
 Ala Gly Thr Ile Thr Ser Val Cys Met Ala Phe Pro Ser Ile Ser Ala
 145 150 155 160
 Val Ala Asp Gly Tyr Lys Val Phe Ala Val Ile Asp Ala Ser Gly Thr
 165 170 175
 Tyr Ser Lys Met Ala Gln Glu Ile Thr Leu Ala Arg Val Val Gln Ala
 180 185 190
 Gly Val Val Pro Met Asp Thr Ala Ala Val Ala Ser Glu Ile Gln Arg
 195 200 205
 Thr Trp Asn Arg Glu Asp Ala Gly Glu Trp Ala Glu Val Tyr Thr His
 210 215 220
 Ile Phe Pro Val Tyr Gln Leu Leu Ile Glu Ser Tyr Ser Lys Ala Gln
 225 230 235 240
 Asp Val Val Lys Asn Ser Glu Val Leu Asp Ser Gln Arg
 245 250

<210> 5772

<211> 194

<212> PRT

<213> Enterobacter cloacae

<400> 5772

Arg Ala Val Asp Asp Gly Gly Pro Ser His Phe Ala Arg Gly Val Pro
 1 5 10 15
 Leu Gln Arg Phe Ser Gln Lys Ala Gly Glu Leu Lys Met Met Gln Leu
 20 25 30
 Trp Phe Asn Leu Pro Ala Lys Asp Lys Trp Gly Thr Pro Gly Tyr Gln
 35 40 45
 Ser Ile Thr Gln Ala Asp Ile Pro Val Val Thr Leu Pro Asp Asn Ser
 50 55 60
 Gly Thr Leu Arg Val Ile Ala Gly Arg Phe Gly Glu Val Thr Gly Pro
 65 70 75 80
 Ala His Thr Phe Ser Pro Leu Asn Val Trp Asp Leu Ala Leu His Gln

			85					90					95			
Gly	Ser	His	Leu	Thr	Leu	Asn	Gln	Pro	Glu	Gly	Trp	Ser	Thr	Ala	Leu	
			100					105					110			
Val	Val	Val	Glu	Gly	Ser	Val	Thr	Val	Asn	Gly	Thr	Thr	Pro	Ala	Gly	
		115					120					125				
Glu	Ala	Gln	Leu	Val	Val	Leu	Ser	Gln	Ser	Gly	Asp	Lys	Leu	His	Leu	
	130					135					140					
Glu	Ala	Ser	Ser	Asp	Ala	Lys	Val	Leu	Leu	Met	Ala	Gly	Glu	Pro	Leu	
145				150						155					160	
Asn	Glu	Pro	Ile	Val	Gly	Tyr	Gly	Pro	Phe	Val	Met	Asn	Ser	Lys	Thr	
			165						170					175		
Glu	Ile	Ala	Glu	Ala	Ile	Arg	Asp	Phe	Asn	Ser	Gly	Arg	Phe	Gly	Gln	
			180					185					190			
Ile																

<210> 5773

<211> 124

<212> PRT

<213> Enterobacter cloacae

<400> 5773

Ser	Ala	Arg	Val	Trp	Arg	Phe	Val	Val	Lys	Arg	Leu	Gly	Pro	Glu	Gln	
1			5						10					15		
Arg	Ala	Glu	Leu	Val	Leu	Asn	Ala	Leu	Val	Ala	Ile	Arg	Phe	Leu	Lys	
			20					25					30			
Pro	Gln	Met	Pro	Lys	Ser	Trp	His	Phe	Leu	Ala	His	Gly	Met	Ser	Trp	
		35					40					45				
Thr	Pro	Ala	Ile	Gly	Asp	Ala	Ala	Ser	Val	Asn	Leu	Ser	Asp	Thr	Glu	
	50				55						60					
Glu	Glu	Val	Asn	Leu	Leu	Val	Val	Glu	Pro	Gly	Glu	Asn	Ala	Ala	Leu	
				70						75					80	
Cys	Leu	Leu	Ala	Gln	Pro	Gly	Val	Asn	Ile	Ala	Gly	Arg	Val	Met	Gln	
				85					90					95		
Leu	Gly	Asp	Ala	Ile	Lys	Val	Met	Asn	Asp	Arg	Leu	Lys	Pro	Gln	Leu	
			100					105					110			
Arg	Val	Asp	Ser	Phe	Ser	Leu	Glu	Gln	Ala	Val						
		115					120									

<210> 5774

<211> 324

<212> PRT

<213> Enterobacter cloacae

<400> 5774

Thr	Ala	Arg	Gln	Phe	Pro	Gln	Met	Val	Arg	Phe	Thr	Pro	Ser	Pro	Leu	
1			5						10					15		
His	Asp	Gly	Leu	His	Leu	Thr	Ala	Pro	Asp	Gly	Ser	Ser	Val	Val	Ile	
			20					25					30			
Arg	Phe	Ala	Asp	Phe	Ala	Pro	Leu	Asp	Ala	Pro	Thr	Glu	Val	Trp	Gly	
		35					40					45				
Asn	His	Phe	Thr	Ala	Arg	Ile	Ala	Pro	Asp	Asn	Ile	Asn	Gln	Trp	Leu	
	50					55					60					
Ser	Gly	Phe	Phe	Ser	Arg	Asp	Val	Gln	Leu	Arg	Trp	Val	Gly	Pro	Ala	
65				70					75						80	
Leu	Thr	Arg	Arg	Val	Lys	Arg	His	Asp	Ala	Val	Pro	Leu	Ser	Phe	Ala	
				85					90					95		
Asp	Gly	Phe	Pro	Phe	Leu	Leu	Thr	Ser	Glu	Ala	Ser	Leu	Arg	Asp	Leu	
			100					105					110			
Gln	Lys	Arg	Cys	Lys	Ala	Ser	Val	Gln	Met	Glu	Gln	Phe	Arg	Pro	Asn	
		115					120					125				

Leu Val Val Thr Gly Ala Glu Ala Trp Asp Glu Asp Thr Trp Lys Val
 130 135 140
 Ile Arg Ile Gly Ser Val Ile Phe Asp Val Val Lys Pro Cys Ser Arg
 145 150 155 160
 Cys Ile Leu Thr Thr Ile Ser Pro Glu Lys Gly Gln Lys His Pro Ser
 165 170 175
 Gly Glu Pro Leu Lys Thr Leu Gln Ser Phe Arg Thr Ala Gln Asp Lys
 180 185 190
 Gly Asp Val Asp Phe Gly Gln Asn Leu Ile Pro Arg Ser Ser Gly Val
 195 200 205
 Ile Arg Val Gly Asp Glu Ile Glu Ile Leu Thr Arg Gly Pro Ala Arg
 210 215 220
 Val Tyr Gly Ala Gly Gln Glu Glu Met Val Asp Val Val Thr Asn
 225 230 235 240
 Val Ala Ser Ala Val Asp Ile His Trp Glu Gly Lys Val Ile Arg Gly
 245 250 255
 Asn Asn Gln Gln Val Leu Leu Glu Gln Leu Glu Gln Ala Gly Ile Arg
 260 265 270
 Val Pro Tyr Ser Cys Arg Ala Gly Ile Cys Gly Cys Cys Arg Ile Lys
 275 280 285
 Leu Val Asp Gly Glu Val Ser Ala Leu Lys Lys Ser Ala Ile Gly Gly
 290 295 300
 Asp Gly Thr Ile Leu Cys Cys Ser Cys Val Pro Lys Thr Ser Val Gln
 305 310 315 320
 Leu Glu Ala

<210> 5775

<211> 264

<212> PRT

<213> Enterobacter cloacae

<400> 5775

Asn Arg Gly His Arg Tyr Ser Pro Val Leu Ala Ile Val Leu Leu Val
 1 5 10 15
 Arg Ser Leu Leu Tyr Glu Pro Phe Gln Ile Arg Ser Gly Ser Met Ile
 20 25 30
 Pro Thr Leu Leu Ile Gly Asp Phe Ile Leu Val Glu Lys Phe Ala Tyr
 35 40 45
 Gly Ile Lys Asp Pro Ile Tyr Gln Lys Thr Leu Ile Glu Thr Gly His
 50 55 60
 Pro Lys Arg Gly Asp Ile Val Val Phe Lys Tyr Pro Glu Asp Pro Arg
 65 70 75 80
 Leu Asp Tyr Ile Lys Arg Ala Val Gly Leu Pro Gly Asp Lys Val Thr
 85 90 95
 Tyr Asp Pro Val Ala Lys Glu Val Thr Ile Gln Pro Gly Cys Ser Ser
 100 105 110
 Gly Thr Ala Cys Glu Asn Ala Leu Pro Val Thr Tyr Ser Asn Val Glu
 115 120 125
 Pro Ser Asp Phe Val Gln Thr Phe Ala Arg Arg Asn Gly Gly Glu Ala
 130 135 140
 Thr Ser Gly Phe Phe Gln Val Pro Lys Gly Glu Thr Lys Glu Asn Gly
 145 150 155 160
 Ile Arg Leu Val Glu Arg Lys Glu Thr Leu Gly Asp Val Thr His Arg
 165 170 175
 Ile Leu Thr Val Pro Ile Ala Gln Asp Gln Leu Ala Met Tyr Tyr Gln
 180 185 190
 Gln Pro Gly Gln Gln Leu Ala Thr Trp Ile Val Pro Pro Gly His Tyr
 195 200 205
 Phe Met Met Gly Asp Asn Arg Asp Asn Ser Ala Asp Ser Arg Tyr Trp
 210 215 220

Gly Phe Val Pro Glu Ala Asn Leu Val Gly Lys Ala Thr Ala Ile Trp
 225 230 235 240
 Met Ser Phe Glu Lys Gln Glu Gly Glu Trp Pro Thr Gly Val Arg Leu
 245 250 255
 Asn Arg Ile Gly Gly Ile His
 260

<210> 5776

<211> 177

<212> PRT

<213> Enterobacter cloacae

<400> 5776

Thr Gly Cys Arg Arg Thr Gly Val Lys Asn Ala Gly Ala Gly Met Ser
 1 5 10 15
 Ile Asp Lys Thr Tyr Cys Gly Phe Ile Ala Ile Val Gly Arg Pro Asn
 20 25 30
 Val Gly Lys Ser Thr Leu Leu Asn Asn Leu Leu Gly Gln Lys Ile Ser
 35 40 45
 Ile Thr Ser Arg Lys Ala Gln Thr Thr Arg His Arg Ile Val Gly Ile
 50 55 60
 His Thr Glu Gly Ala Tyr Gln Ala Ile Tyr Val Asp Thr Pro Gly Leu
 65 70 75 80
 His Met Glu Glu Lys Arg Ala Ile Asn Arg Leu Met Asn Lys Ala Ala
 85 90 95
 Ser Ser Ser Ile Gly Asp Leu Glu Leu Val Ile Phe Val Val Glu Gly
 100 105 110
 Thr Arg Trp Thr Pro Asp Asp Glu Met Val Leu Asn Lys Leu Arg Asp
 115 120 125
 Gly Lys Thr Pro Val Ile Leu Ala Val Asn Lys Val Asp Asn Val Gln
 130 135 140
 Glu Lys Ala Asp Leu Leu Pro His Leu Gln Trp Leu Gly Ser His Met
 145 150 155 160
 Asn Phe Leu Asp Ile Val Ser Leu Ser Ala Asp Thr Gly Leu Asn Val
 165 170 175
 Asp

<210> 5777

<211> 267

<212> PRT

<213> Enterobacter cloacae

<400> 5777

Asn Ile Pro Pro Lys Phe Lys Val Gly Pro Ala Arg Val Pro Arg His
 1 5 10 15
 Thr Lys Pro Arg Trp Phe Ser Gln Val Gly Phe Val Cys Cys Ile Phe
 20 25 30
 Asp Ala Phe Ile Tyr Trp Tyr Arg Met Asn Pro Ile Val Ile Asn Arg
 35 40 45
 Leu Gln Arg Lys Leu Gly Tyr Thr Phe His His Gln Glu Leu Leu Gln
 50 55 60
 Gln Ala Leu Thr His Arg Ser Ala Ser Ser Lys His Asn Glu Arg Leu
 65 70 75 80
 Glu Phe Leu Gly Asp Ser Ile Leu Ser Phe Val Ile Ala Asn Ala Leu
 85 90 95
 Tyr His Arg Phe Pro Arg Val Asp Glu Gly Asp Met Ser Arg Met Arg
 100 105 110
 Ala Thr Leu Val Arg Gly Asn Thr Leu Ala Glu Ile Ala Arg Glu Phe
 115 120 125
 Glu Leu Gly Glu Cys Leu Arg Leu Gly Pro Gly Glu Leu Lys Ser Gly

130		135		140
Gly Phe Arg Arg Glu Ser Ile Leu Ala Asp Thr Val Glu Ala Leu Ile				
145		150		155
Gly Gly Val Phe Leu Asp Ser Asp Ile Gln Thr Val Glu Lys Leu Ile				
	165		170	
Leu Asn Trp Tyr Gln Thr Arg Leu Asp Glu Ile Ser Pro Gly Asp Lys				
	180		185	190
Gln Lys Asp Pro Lys Thr Arg Leu Gln Glu Tyr Leu Gln Gly Arg His				
	195		200	205
Leu Pro Leu Pro Ser Tyr Leu Val Val Gln Val Arg Gly Glu Ala His				
	210		215	220
Asp Gln Glu Phe Thr Ile His Cys Gln Val Ser Gly Leu Ser Glu Pro				
225		230		235
Val Val Gly Thr Gly Ser Ser Arg Arg Lys Ala Glu Gln Ala Ala Ala				
	245		250	255
Glu Gln Ala Leu Lys Met Leu Glu Leu Glu				
	260		265	

<210> 5778

<211> 436

<212> PRT

<213> Enterobacter cloacae

<400> 5778

Thr Gly Lys Tyr His Met Val Asp Gln Val Lys Val Ala Ala Ala Glu				
1	5		10	15
Glu Ala Thr Ser Glu Gln Ser Leu Arg Arg Asn Leu Thr Asn Arg His				
	20		25	30
Ile Gln Leu Ile Ala Ile Gly Gly Ala Ile Gly Thr Gly Leu Phe Met				
	35		40	45
Gly Ser Gly Lys Thr Ile Ser Leu Ala Gly Pro Ser Ile Ile Phe Val				
	50		55	60
Tyr Met Ile Ile Gly Phe Met Leu Phe Phe Val Met Arg Ala Met Gly				
65	70		75	80
Glu Leu Leu Leu Ser Asn Leu Glu Tyr Lys Ser Phe Ser Asp Phe Ala				
	85		90	95
Ser Asp Leu Leu Gly Pro Trp Ala Gly Tyr Phe Thr Gly Trp Thr Tyr				
	100		105	110
Trp Phe Cys Trp Val Val Thr Gly Met Ala Asp Val Val Ala Ile Thr				
	115		120	125
Ala Tyr Ala Gln Phe Trp Phe Pro Gly Leu Ser Asp Trp Val Ala Ser				
	130		135	140
Leu Ala Val Ile Val Leu Leu Leu Ser Leu Asn Leu Ala Thr Val Lys				
145	150		155	160
Met Phe Gly Glu Met Glu Phe Trp Phe Ala Met Ile Lys Ile Val Ala				
	165		170	175
Ile Ile Ala Leu Ile Val Val Gly Leu Val Met Val Leu Thr His Phe				
	180		185	190
Gln Ser Pro Thr Gly Val Gln Ala Ser Phe Ala His Leu Trp Asn Asp				
	195		200	205
Gly Gly Trp Phe Pro Lys Gly Ile Ser Gly Phe Phe Ala Gly Phe Gln				
	210		215	220
Ile Ala Val Phe Ala Phe Val Gly Ile Glu Leu Val Gly Thr Thr Ala				
225	230		235	240
Ala Glu Thr Lys Asp Pro Glu Lys Ser Leu Pro Arg Ala Ile Asn Ser				
	245		250	255
Ile Pro Leu Arg Ile Ile Met Phe Tyr Val Phe Ala Leu Ile Val Ile				
	260		265	270
Met Ser Val Thr Pro Trp Ser Ser Val Val Pro Thr Lys Ser Pro Phe				
	275		280	285
Val Glu Leu Phe Val Leu Val Gly Leu Pro Ala Ala Ser Leu Ile				

290	295	300
Asn Phe Val Val Leu Thr Ser Ala Ala Ser Ser Ala Asn Ser Gly Val		
305	310	315
Phe Ser Thr Ser Arg Met Leu Phe Gly Leu Ala Gln Glu Gly Val Ala		
	325	330
Pro Ser Ala Phe Ala Lys Leu Ser Lys Arg Ala Val Pro Ala Lys Gly		
	340	345
Leu Thr Phe Ser Cys Ile Cys Leu Leu Gly Gly Val Val Met Leu Tyr		
	355	360
Val Asn Pro Ser Val Ile Gly Ala Phe Thr Met Ile Thr Thr Val Ser		
	370	375
Ala Ile Leu Phe Met Phe Val Trp Thr Ile Ile Leu Cys Ser Tyr Leu		
385	390	395
Val Tyr Arg Lys Gln Arg Pro His Leu His Glu Lys Ser Ile Tyr Lys		
	405	410
Met Pro Leu Gly Lys Leu Met Cys Trp Val Cys Met Ala Phe Phe Val		
	420	425
Phe Val Leu Val		430
435		

<210> 5779

<211> 212

<212> PRT

<213> Enterobacter cloacae

<400> 5779

Glu Arg Glu Asp Ala Val Leu Pro Pro Ala Gly Glu Glu Leu Glu Ala	
1	5
Gln Ala Ser Tyr Gly Ile Gly Leu Gln Val Gly Gln Gln Leu Ser Glu	
	20
Ser Gly Leu Glu Gly Leu Leu Pro Glu Ala Leu Val Ala Gly Ile Ala	
	35
Asp Ala Leu Glu Gly Lys Gln Pro Ala Val Pro Val Asp Val Val His	
	50
Arg Ala Leu Arg Glu Ile His Glu Arg Ala Asp Ala Val Arg Arg Ala	
65	70
Arg Phe Glu Glu Met Ala Ala Glu Gly Val Lys Tyr Leu Glu Glu Asn	
	85
Arg Glu Arg Glu Gly Val Asn Ser Thr Glu Ser Gly Leu Gln Phe Arg	
	100
Val Ile Asn Gln Gly Asp Gly Ala Ile Pro Ala Arg Thr Asp His Val	
	115
Arg Val His Tyr Thr Gly Lys Leu Ile Asp Gly Thr Val Phe Asp Ser	
	130
Ser Val Ala Arg Gly Glu Pro Ala Glu Phe Pro Val Asn Gly Val Ile	
145	150
Ala Gly Trp Ile Glu Ala Leu Thr Leu Met Pro Val Gly Ser Lys Trp	
	165
Glu Leu Thr Ile Pro His Asn Leu Ala Tyr Gly Glu Arg Gly Ala Gly	
	180
Ala Ser Ile Pro Pro Phe Ser Thr Leu Val Phe Glu Val Glu Leu Leu	
	195
Glu Ile Leu	200
210	205

<210> 5780

<211> 400

<212> PRT

<213> Enterobacter cloacae

<400> 5780

Asp Glu Thr Arg Ile Tyr Tyr Arg Arg Ser Leu Cys Asn Met Ala Asp
 1 5 10 15
 Asp Lys Leu Ser Gly Pro Asp Glu Lys Leu Phe Tyr Gln Ser Arg Arg
 20 25 30
 Leu Tyr Arg Lys Cys Cys Asn Ile Tyr Tyr Ile Gln Val Ser Met Met
 35 40 45
 Val Lys Lys Phe Lys Lys Leu Leu Leu Glu Phe Ile Val Ala Val Met
 50 55 60
 Leu Ser Leu Ser Ile Pro Gly Met Ala Met Ala Ala Asp Ala Gly Val
 65 70 75 80
 Pro Gly Ala Met Cys Gln Ser Ala Gly Val Trp Gln Gly Leu Ile Lys
 85 90 95
 Asn Ile Cys Trp Ser Cys Ile Phe Pro Met Arg Ile Met Gly Ile Gly
 100 105 110
 Ala Ala Pro Glu Gly Ala Ala Pro Ser Arg Pro Gly Cys Tyr Cys Thr
 115 120 125
 Asp Gln Asn Gly Val Pro Glu Ile Gly Trp Gln Leu Ser Phe Phe Gln
 130 135 140
 Pro Val Lys Ile Val Glu Val Val Lys Ser Pro Trp Cys Ser Pro Phe
 145 150 155 160
 Leu Glu Gly Thr Met Leu Gln Lys Ser Gln Phe Asp Ile Gly Lys Ser
 165 170 175
 Asn Thr Asn Gln Pro Met Thr Ala Thr Glu Ala Gly Phe Tyr Asp Val
 180 185 190
 His Leu Trp Glu Phe Pro Ile Met Thr Met Leu Lys Leu Leu Ile Ile
 195 200 205
 Gly Glu Cys Thr Ala Glu Pro Tyr Ile Asp Ala Ser Leu Thr Tyr Ile
 210 215 220
 Ser Glu Val Asp Pro Met Trp Glu Ser Asp Leu Leu Thr Leu Val Leu
 225 230 235 240
 Asn Pro Glu Ala Val Val Phe Ala Asn Pro Ile Ala Ser Met Val Cys
 245 250 255
 Ala Ala Asp Cys Val Ala Val Thr Ala Gly Lys Asp Asn Leu Ala Ala
 260 265 270
 Tyr Phe Cys Ala Gly Cys Asp Gly Asn Leu Tyr Pro Leu Thr Gly His
 275 280 285
 Met Tyr Ala Asn Asp Asp Ala Val Arg Thr Ser Ser Leu Ile Thr His
 290 295 300
 Arg Leu Leu Thr Lys Leu His Arg Gln Gly Met Leu Met Arg Thr Met
 305 310 315 320
 Gly Ala Asp Ala Met Cys Glu Lys Thr Trp Glu Tyr Phe Thr Pro Arg
 325 330 335
 Ser Gln Tyr Arg Leu Ser Met Leu Phe Pro Thr Pro Glu Ala Lys Gly
 340 345 350
 Pro Asp Cys Cys His Arg Leu Gly Asp Ser Val His Asp Trp Ser Thr
 355 360 365
 Leu Lys Gly Gly Arg Lys Lys Ile Gly Asn Asp Asn Tyr Val Tyr Met
 370 375 380
 Leu Trp Arg Tyr Asn Asp Cys Cys Val Arg Tyr Ile Pro Gly Ala
 385 390 395 400

<210> 5781

<211> 293

<212> PRT

<213> Enterobacter cloacae

<400> 5781

Gln Ile Trp Ser Ile Tyr Met Ala Trp Asn Gln Pro Gly Asn Asn Gly
 1 5 10 15
 Gln Asp Arg Asp Pro Trp Gly Ser Ser Asn Asn Gln Gly Gly Asn Ser
 20 25 30

Gly Gly Asn Gly Asn Lys Gly Gly Arg Glu Gln Gly Pro Pro Asp Leu
 35 40 45
 Asp Asp Ile Phe Arg Lys Leu Ser Lys Lys Leu Gly Gly Leu Gly Gly
 50 55 60
 Gly Lys Gly Ser Gly Ser Gly Gly Asn Ser Thr Gln Ser Pro Arg Pro
 65 70 75 80
 Pro Met Gly Gly Arg Val Val Gly Ile Val Ala Ala Ala Val Val Ile
 85 90 95
 Ile Trp Ala Ala Ser Gly Phe Tyr Thr Ile Lys Glu Ala Glu Arg Gly
 100 105 110
 Val Val Thr Arg Phe Gly Lys Phe Ser His Leu Val Glu Pro Gly Leu
 115 120 125
 Asn Trp Lys Pro Thr Phe Ile Asp Asp Val Thr Ala Val Asn Val Glu
 130 135 140
 Ser Val Arg Glu Leu Ala Ala Ser Gly Val Met Leu Thr Ser Asp Glu
 145 150 155 160
 Asn Val Val Arg Val Glu Met Asn Val Gln Tyr Arg Val Thr Asp Pro
 165 170 175
 Glu Arg Tyr Leu Phe Ser Val Thr Ser Ala Asp Asp Ser Leu Arg Gln
 180 185 190
 Ala Thr Asp Ser Ala Leu Arg Gly Val Ile Gly Lys Tyr Thr Met Asp
 195 200 205
 Arg Ile Leu Thr Glu Gly Arg Thr Val Ile Arg Ser Asp Thr Gln Arg
 210 215 220
 Glu Leu Glu Glu Thr Ile Arg Pro Tyr Asn Met Gly Ile Thr Leu Leu
 225 230 235 240
 Asp Val Asn Phe Gln Ala Ala Arg Pro Pro Glu Glu Val Lys Ala Ala
 245 250 255
 Phe Asp Asp Ala Ile Ala Ala Arg Glu Asn Glu Gln Gln Tyr Ile Arg
 260 265 270
 Glu Ala Glu Ala Tyr Thr Lys Asp Val Arg Leu His Leu Gly Arg Ala
 275 280 285
 Asp Pro Arg Arg Ala
 290

<210> 5782

<211> 111

<212> PRT

<213> Enterobacter cloacae

<400> 5782

Thr Lys Met Asp Met Leu Glu Asp Phe Glu Pro Arg Ile Asp Arg Asp
 1 5 10 15
 Glu Glu Asn Lys Pro Ile Arg Val Trp Leu Tyr Ala Gln Ala Gly Ile
 20 25 30
 Gly Val Pro Leu Leu Phe Gln Ala Leu Thr Glu Arg Leu Ser Gly Glu
 35 40 45
 Val Ala Gln His Thr Leu Arg Leu Pro Pro Gln Glu Gly Arg Leu Arg
 50 55 60
 Ser Arg Phe Tyr Gln Leu Gln Ala Ile Glu Lys Glu Trp Met Glu Asp
 65 70 75 80
 Asp Gly Ser Val Gly Met Gln Val Arg Met Pro Ile Val Asp Trp Arg
 85 90 95
 Arg Leu Cys Lys Gln Glu Pro Ala Leu Ala Asp Tyr Ile Val
 100 105 110

<210> 5783

<211> 199

<212> PRT

<213> Enterobacter cloacae

<400> 5783

Gly His His His Pro Val Leu Gly Ile Val Ile Lys Cys Pro Leu Ser
 1 5 10 15
 Gly Glu Thr Gln Gln Glu Arg Ile Met Ser Leu Ala Gly Lys Lys
 20 25 30
 Ile Val Leu Gly Val Ser Gly Gly Ile Ala Ala Tyr Lys Thr Pro Asp
 35 40 45
 Leu Val Arg Arg Leu Arg Glu Arg Gly Ala Asp Val Arg Val Ala Ile
 50 55 60
 Thr Glu Gly Gly Lys Ala Phe Ile Thr Pro Leu Ser Leu Gln Ala Val
 65 70 75 80
 Ser Gly Tyr Pro Val Ser Asp Ser Leu Leu Asp Pro Ala Ala Glu Ala
 85 90 95
 Ala Met Gly His Ile Glu Leu Gly Lys Trp Ala Asp Leu Val Ile Leu
 100 105 110
 Ala Pro Ala Thr Ala Asp Leu Ile Ala Arg Leu Ala Thr Gly Met Ala
 115 120 125
 Asn Asp Leu Val Thr Thr Ile Cys Leu Ala Thr Pro Ala Pro Val Ala
 130 135 140
 Val Val Pro Ala Met Asn Gln Gln Met Tyr Arg Asn Ala Ala Thr Gln
 145 150 155 160
 His Asn Leu Asp Thr Leu Ala Ser Arg Gly Leu Leu Ile Trp Gly Thr
 165 170 175
 Asp Ser Gly Ser Gln Ala Cys Gly Glu Ile Gly Gly Arg Gly Phe Pro
 180 185 190
 Gln Pro Ile Asn Asp Cys
 195

<210> 5784

<211> 68

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (52)

<400> 5784

Phe Gly Glu Arg Thr Ala Ala Ala Lys Pro Ala Gly Lys Leu Gly Ala
 1 5 10 15
 Gly Val Phe Leu Asn Pro Leu Thr Ile Val Asp Met Ala Ala Ala His
 20 25 30
 Phe Ser Pro Val Asn Asp Leu Gln His Leu Asn Ile Met Asn Thr Ala
 35 40 45
 Gly Pro Pro Xaa Lys Pro Leu Gly Phe Arg Ala Leu His Gln Gln Pro
 50 55 60
 Lys Val Arg Glu
 65

<210> 5785

<211> 284

<212> PRT

<213> Enterobacter cloacae

<400> 5785

Phe Phe Pro Val Gly Phe His Gln Arg Ala Gly Ile Leu Ser Gln Ser
 1 5 10 15
 Leu Lys Arg Gly Asp Asp Val Leu Asn Ser Leu Cys Glu Ala Leu Arg
 20 25 30
 Lys Asn Glu Met Pro Ala Ser Asn Pro Glu Phe Ala Cys Gly Ser Ile
 35 40 45

Met Ala Asn Arg Arg Arg Pro Gly Met Glu Glu Thr Glu Leu Leu Leu
 50 55 60
 Pro Arg Glu Lys Met Leu Arg His Gly Val Thr Leu Leu Lys Asp Asp
 65 70 75 80
 Glu Leu Leu Ala Leu Phe Leu Arg Thr Gly Thr Pro Gly Lys Thr Val
 85 90 95
 Phe Thr Leu Ala Lys Glu Leu Ile Asp His Phe Gly Ser Leu Tyr Gly
 100 105 110
 Leu Leu Thr Ala Glu Leu Glu Ala Phe Thr His Val Glu Gly Ile Gly
 115 120 125
 Val Ala Lys Tyr Ala Gln Leu Arg Gly Ile Ala Glu Leu Ala Arg Arg
 130 135 140
 Phe Tyr Asn Val Arg Met Glu Glu Glu Asp Pro Ile Leu Thr Pro Asp
 145 150 155 160
 Met Thr Arg Glu Phe Leu Gln Ser Gln Leu Ser Asp Leu Glu Arg Glu
 165 170 175
 Ile Phe Met Val Ile Phe Leu Asp Asn Lys Asn Arg Val Leu Lys His
 180 185 190
 Thr Arg Leu Phe Ser Gly Thr Leu Ser His Val Glu Val His Pro Arg
 195 200 205
 Glu Ile Val Arg Glu Ala Ile Lys Val Asn Ala Ala Gly Val Ile Leu
 210 215 220
 Ala His Asn His Pro Ser Gly Cys Ala Glu Pro Ser Arg Ala Asp Lys
 225 230 235 240
 Ala Ile Thr Glu Arg Ile Ile Lys Cys Cys Gln Phe Met Asp Ile Arg
 245 250 255
 Val Leu Asp His Leu Ile Ile Gly Arg Gly Glu Tyr Ile Cys Leu His
 260 265 270
 His Arg Gly Ser Lys Glu Pro Arg Tyr Ala Cys Ile
 275 280

<210> 5786

<211> 112

<212> PRT

<213> Enterobacter cloacae

<400> 5786

Met Asn Met Leu Ser Phe Glu Gly Lys Glu Ile Glu Thr Asp Asn Asp
 1 5 10 15
 Gly Tyr Leu Lys Glu Ser Ser Gln Trp Ser Glu Ala Leu Ala Glu Lys
 20 25 30
 Ile Ala Asp Asn Glu Gly Ile Thr Leu Ser Pro Glu His Trp Glu Val
 35 40 45
 Val Arg Phe Val Arg Glu Phe Tyr Leu Glu Phe Asn Thr Ser Pro Ala
 50 55 60
 Ile Arg Met Leu Val Lys Ala Met Ala Asn Lys Phe Gly Glu Glu Lys
 65 70 75 80
 Gly Asn Ser Arg Tyr Leu Tyr Arg Leu Phe Pro Lys Gly Pro Ala Lys
 85 90 95
 Gln Ala Thr Lys Ile Ala Gly Leu Pro Lys Pro Val Lys Cys Ile
 100 105 110

<210> 5787

<211> 221

<212> PRT

<213> Enterobacter cloacae

<400> 5787

Leu Met Asp Arg Ile Ile Thr Ser Ser Arg Asp Arg Thr Ser Leu Leu
 1 5 10 15
 Ser Thr His Lys Val Leu Arg Asn Thr Tyr Phe Met Leu Ser Leu Thr

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<210> 5788
<211> 94
<212> PRT
<213> Enterobacter cloacae
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<210> 5789
<211> 384
<212> PRT
<213> Enterobacter cloacae
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<400> 5789															
Lys	Ile	Leu	Arg	Tyr	Ile	Pro	Lys	Ala	Ala	Lys	Asn	Tyr	Phe	Arg	Ile
1				5					10					15	
Val	Ile	Lys	Thr	Asp	Asn	Lys	Ala	Lys	Glu	Met	Lys	Pro	Gln	Thr	Arg
			20					25					30		
Thr	His	Phe	Thr	Leu	Ser	Leu	Leu	Thr	Ala	Gly	Ile	Leu	Cys	Ala	Ser
		35					40					45			
Thr	Ala	Thr	Trp	Ala	Ala	Asn	Val	Pro	Ala	Gly	Thr	Gln	Leu	Ala	Asp
	50					55					60				
Lys	Gln	Glu	Leu	Val	Arg	Asn	Asn	Gly	Ser	Glu	Pro	Ala	Ser	Leu	Asp
65					70					75					80

Pro His Lys Val Glu Ser Asp Val Glu Phe Asn Ile Ile Ser Asp Leu
 85 90 95
 Phe Asp Gly Leu Val Ser Val Ser Pro Ala Gly Glu Ile Gln Pro Arg
 100 105 110
 Leu Ala Glu Lys Trp Glu Asn Lys Asp Asn Thr Val Trp Thr Phe His
 115 120 125
 Leu Arg Pro Gly Ile Thr Trp Ser Asp Gly Thr Pro Ile Thr Ala Glu
 130 135 140
 Asp Ile Val Trp Ser Trp Gln Arg Leu Val Asp Pro Lys Thr Ala Ser
 145 150 155 160
 Pro Tyr Ala Ser Tyr Pro Gly Ser Met Arg Ile Val Asn Gly Thr Asp
 165 170 175
 Ile Ala Glu Gly Lys Lys Ala Pro Glu Ser Leu Gly Val Lys Ala Ile
 180 185 190
 Asn Asp Thr Thr Leu Glu Val Thr Leu Thr Gln Pro Asn Ala Ala Phe
 195 200 205
 Leu Ala Met Leu Ala His Pro Ser Leu Val Pro Ile Asp Lys Val Leu
 210 215 220
 Val Gly Arg Phe Gly Asp Lys Trp Thr Lys Pro Glu His Phe Val Ser
 225 230 235 240
 Ser Gly Ala Tyr Lys Leu Ser Gln Trp Val Val Asn Glu Arg Ile Val
 245 250 255
 Ala Val Leu Asn Pro Lys Tyr Trp Asp Asn Glu His Thr Val Ile Asn
 260 265 270
 Lys Val Thr Tyr Leu Pro Ile Ser Ser Glu Ala Ala Asp Val Asn Arg
 275 280 285
 Tyr Lys Ala Gly Glu Ile Asp Ile Val Tyr Thr Val Pro Ile Asn Gln
 290 295 300
 Phe Ala Gln Leu Lys Lys Thr Leu Gly Ser Glu Leu Asp Val Ser Pro
 305 310 315 320
 Gln Leu Ala Thr Tyr Tyr Glu Phe Asn Thr Thr Arg Pro Pro Phe
 325 330 335
 Asn Asp Ala Arg Val Arg Lys Ala Leu Asn Leu Ala Leu Asp Lys Asp
 340 345 350
 Ile Ile Ala Asp Lys Val Ile Arg Gln Gly Gln Arg Pro Ala Trp Leu
 355 360 365
 Ile Asn Gln Pro Asp Ile Gly Gly Val Lys Leu Gln Asn Pro Gly
 370 375 380

<210> 5790

<211> 316

<212> PRT

<213> Enterobacter cloacae

<400> 5790

Lys Val Leu Pro Gly Val Ser Ala His Met Lys Lys Met Ala Asp Glu
 1 5 10 15
 Ala Gly Gly Leu Asp Arg Val Ser Gln Met Ala Val Thr Gly Ile Gly
 20 25 30
 Arg Val Lys Ala Ala Met Glu Asn Asp Leu Asn Lys Ala Phe Thr Ser
 35 40 45
 Ser Glu Lys Gly Phe Gly Gln Phe Asn Ala Ser Val Ala Asn Met Leu
 50 55 60
 Asn Asp Ala Ser Pro Ile Ala Glu Ala Leu Gly His Ile Leu Gly Lys
 65 70 75 80
 Val Ala Ser Met Thr Ser Gly Ala Val Asp His Val Asp Glu Trp Ser
 85 90 95
 Arg Lys Leu Ser Ala Leu Ile Leu Arg Thr Ser Ala Trp Tyr Asp Asp
 100 105 110
 Leu Ser Asp Gly Gln Lys Lys Leu Val Asp Ser Ala Glu Gln Phe Ala
 115 120 125

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Ile Gly Ala Ala Gly Val Leu Val Leu Val Lys Ser Ile Ala Gly Val
130 135 140
Ala Asn Lys Leu Lys Trp Leu Ser Ala Leu Leu Gly Gly Ala Glu
145 150 155 160
Ala Gly Ala Ala Ala Gly Ala Gly Gly Leu Leu Lys Gly Ala Ser Arg
165 170 175
Leu Ala Gly Pro Val Gly Val Ala Leu Val Ala His Asp Ala Val Asp
180 185 190
Ala Ser Gly Val Glu Gln Asn Tyr Pro Asn Ala Val Gly Thr Gly Asn
195 200 205
Pro Ile Ala Gln Val Leu Asn Trp Leu Thr Asn Pro Ser Lys Ile Leu
210 215 220
Gly Ala Thr Glu Gln Asp Ser Leu Thr Asn Ser Pro Phe Thr Arg Met
225 230 235 240
Met Gly Ser Leu Gly Asp Trp Leu Gln Gly Asn Asn Ala Leu Ser Gly
245 250 255
Gln Ala Asn Thr Phe Ala Val Pro Ser Met Tyr Asn Pro Ala Gln Thr
260 265 270
Thr Ile Arg Asn Asp Gln Arg Ile Asn Ile Ser Val Asn Met Asp Ser
275 280 285
Gln Lys Ile Gly Thr Phe Gln Thr Gln Val Leu Thr Gly Gly Phe Glu
290 295 300
Asp Leu Asn Ile Asn Ala Glu His Leu Gly Asp
305 310 315

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<210> 5791

<211> 185

<212> PRT

<213> Enterobacter cloacae

<400> 5791

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Thr Gly Gln Asp Arg Ile Tyr Arg Leu Glu Leu Phe Cys Arg Glu Pro
1 5 10 15
Thr Ile Phe Lys His Ala Cys Cys Ile Ile Asn Leu Ser Gly Leu Ala
20 25 30
Cys Ala Asp Glu His Gly Cys His Arg Ile Val Ala Gln Asp Pro Gly
35 40 45
Gln Cys His Leu Arg Gln Leu Pro Pro Phe Phe Arg Gln Arg Ile
50 55 60
Gln Leu Thr Tyr Leu Phe Gln Leu Phe Val Gly Asp Leu Phe Arg Ile
65 70 75 80
Lys Glu Leu Thr Ala Ala Cys Cys Ala Arg Ile Arg Arg Asp Ala Val
85 90 95
Gln Ile Ala Ile Gly Gln Leu Ser Ala Arg Gln Gly Arg Glu Gly Asp
100 105 110
Thr Ser His Pro Phe Leu Leu Gln His Val Gln Gln Pro Leu Phe Arg
115 120 125
Arg Thr Phe Lys His Gly Val Leu Arg Leu Val Asp Gln Thr Trp Arg
130 135 140
Ala Gln Ile Leu His Tyr Phe Asn Arg Leu Pro Cys His Phe Cys Arg
145 150 155 160
Val Val Gly Gln Thr Asp Val Gln Arg Phe Ala Leu Thr His His Met
165 170 175
Val Lys Arg Phe His Gly Phe Thr
180 185

```

<210> 5792

<211> 349

<212> PRT

<213> Enterobacter cloacae

<400> 5792

Cys Lys Arg Ile His Gly Cys Phe Phe Pro Ala Pro Glu Val Ser Gln
 1 5 10 15
 Met Gly Tyr Gln Pro Asp Lys Asn Arg Tyr Gln Thr Met Gln Tyr Arg
 20 25 30
 Arg Cys Gly Gln Ser Gly Leu Lys Leu Pro Ala Ile Ser Leu Gly Leu
 35 40 45
 Trp His Asn Phe Gly Asp Ala Thr Leu Leu Glu Asn Ser Arg Gln Leu
 50 55 60
 Leu Gln Arg Ala Phe Asn Leu Gly Ile Thr His Phe Asp Leu Ala Asn
 65 70 75 80
 Asn Tyr Gly Pro Pro Gly Ser Ala Glu Arg Asn Phe Gly Arg Ile
 85 90 95
 Leu Gln Glu Asp Phe Leu Pro Trp Arg Asp Glu Leu Ile Ile Ser Thr
 100 105 110
 Lys Ala Gly Tyr Thr Met Trp Asp Gly Pro Tyr Gly Asp Trp Gly Ser
 115 120 125
 Arg Lys Tyr Leu Ile Ala Ser Leu Asp Gln Ser Leu Lys Arg Met Gly
 130 135 140
 Leu Glu Tyr Val Asp Ile Phe Tyr His His Arg Pro Asp Pro His Thr
 145 150 155 160
 Pro Leu Arg Glu Thr Met Lys Ala Leu Asp His Val Val Arg Gln Gly
 165 170 175
 Lys Ala Leu Tyr Ile Gly Leu Ser Asn Tyr Pro Ala Glu Met Ala Arg
 180 185 190
 Gln Ala Ile Glu Ile Met Glu Asp Leu Gly Thr Pro Cys Leu Ile His
 195 200 205
 Gln Pro Lys Tyr Ser Met Phe Glu Arg Ala Pro Glu Glu Gly Leu Leu
 210 215 220
 Asp Val Leu Gln Gln Lys Gly Val Gly Cys Ile Pro Phe Ser Pro Leu
 225 230 235 240
 Ala Gly Gly Gln Leu Thr Asp Arg Tyr Leu Asn Gly Ile Pro Ala Asp
 245 250 255
 Ser Arg Ala Ala Ser Gly Ser Lys Phe Leu Asn Pro Glu Gln Ile Thr
 260 265 270
 Asp Lys Lys Leu Glu Lys Val Arg Lys Leu Asn Ala Leu Ala Glu Lys
 275 280 285
 Arg Arg Gln Lys Leu Ser Gln Met Ala Leu Ala Trp Ile Leu Arg His
 290 295 300
 Asp Ala Val Thr Ser Val Leu Ile Gly Ala Ser Lys Thr Gly Gln Ile
 305 310 315 320
 Asp Asp Ala Ala Gly Val Leu Glu Asn Cys Arg Phe Thr Ala Glu Glu
 325 330 335
 Leu Lys Thr Ile Asp Thr Ile Leu Ser Ser Ser Asp
 340 345

<210> 5793

<211> 464

<212> PRT

<213> Enterobacter cloacae

<400> 5793

Gly Asn Lys Met Gln Val Ser Val Glu Thr Thr Gln Gly Leu Gly Arg
 1 5 10 15
 Arg Val Thr Ile Thr Ile Ala Ala Asp Ser Ile Glu Thr Ala Val Lys
 20 25 30
 Ser Glu Leu Val Asn Val Ala Lys Val Arg Ile Asp Gly Phe Arg
 35 40 45
 Lys Gly Lys Val Pro Met Asn Val Val Ala Gln Arg Tyr Gly Ala Ser
 50 55 60
 Val Arg Gln Asp Val Leu Gly Glu Leu Met Ser Arg Asn Phe Ile Asp

65					70					75				80	
Ala	Ile	Ile	Lys	Glu	Lys	Ile	Asn	Pro	Ala	Gly	Ala	Pro	Asn	Tyr	Val
				85					90					95	
Pro	Gly	Glu	Tyr	Lys	Gln	Gly	Glu	Asp	Phe	Thr	Tyr	Ser	Val	Glu	Phe
			100					105					110		
Glu	Val	Tyr	Pro	Glu	Val	Glu	Leu	Lys	Gly	Leu	Glu	Ser	Ile	Glu	Val
		115					120					125			
Glu	Lys	Pro	Ile	Val	Ser	Val	Thr	Asp	Glu	Asp	Val	Asp	Gly	Met	Leu
	130					135					140				
Asp	Thr	Leu	Arg	Lys	Gln	Gln	Ala	Asn	Trp	Lys	Glu	Lys	Glu	Gly	Ala
145				150						155					160
Val	Asp	Ala	Glu	Asp	Arg	Val	Thr	Ile	Asp	Phe	Thr	Gly	Ser	Val	Asp
			165						170					175	
Gly	Glu	Glu	Phe	Glu	Gly	Gly	Lys	Ala	Ser	Asp	Phe	Val	Leu	Ala	Met
			180					185					190		
Gly	Gln	Gly	Arg	Met	Ile	Pro	Gly	Phe	Glu	Asp	Gly	Ile	Lys	Gly	His
		195					200					205			
Lys	Ala	Gly	Glu	Glu	Phe	Thr	Ile	Asp	Val	Thr	Phe	Pro	Glu	Glu	Tyr
	210					215					220				
His	Ala	Glu	Asn	Leu	Lys	Gly	Lys	Ala	Ala	Lys	Phe	Val	Ile	Asn	Leu
225				230						235					240
Lys	Lys	Val	Glu	Glu	Arg	Glu	Leu	Pro	Glu	Leu	Thr	Glu	Glu	Phe	Ile
			245						250					255	
Lys	Arg	Phe	Gly	Val	Glu	Asp	Gly	Ser	Val	Ala	Gly	Leu	Arg	Thr	Glu
		260					265						270		
Val	Arg	Lys	Asn	Met	Glu	Arg	Glu	Leu	Asn	Gly	Ala	Val	Arg	Asn	Arg
		275					280					285			
Val	Lys	Ser	Gln	Ala	Ile	Glu	Gly	Leu	Val	Lys	Ala	Asn	Asp	Ile	Asp
	290					295					300				
Val	Pro	Ala	Ala	Leu	Ile	Asp	Ser	Glu	Ile	Asp	Val	Leu	Arg	Arg	Gln
305				310						315					320
Ala	Ala	Gln	Arg	Phe	Gly	Gly	Asn	Gln	Gln	Gln	Ala	Met	Glu	Leu	Pro
			325					330						335	
Arg	Glu	Leu	Phe	Glu	Glu	Gln	Ala	Lys	Arg	Arg	Val	Val	Val	Gly	Leu
			340					345					350		
Leu	Leu	Gly	Glu	Val	Ile	Arg	Thr	His	Glu	Leu	Lys	Ala	Asp	Glu	Glu
		355					360					365			
Arg	Val	Lys	Gly	Leu	Ile	Glu	Glu	Met	Ala	Ser	Ala	Tyr	Glu	Asp	Pro
	370					375					380				
Ser	Glu	Val	Ile	Glu	Phe	Tyr	Gly	Lys	Asn	Lys	Glu	Leu	Met	Asp	Asn
385				390						395					400
Met	Arg	Asn	Val	Ala	Leu	Glu	Glu	Gln	Ala	Val	Glu	Ala	Val	Leu	Ala
			405						410					415	
Lys	Ala	Lys	Val	Thr	Glu	Lys	Glu	Thr	Ser	Phe	Thr	Glu	Leu	Met	Asn
			420					425					430		
His	Gln	Gly	Val	Ile	Ser	Pro	Gln	Arg	Phe	Lys	Val	Leu	Asn	Lys	Lys
	435						440					445			
Pro	Val	Gly	Pro	Pro	Gly	Asp	Gly	Val	Phe	Phe	Asn	His	Lys	Leu	
	450					455					460				

<210> 5794

<211> 364

<212> PRT

<213> Enterobacter cloacae

<400> 5794

Gly	Leu	His	His	Ala	Gly	Asp	Pro	Gly	Tyr	Arg	Arg	Ala	Tyr	Cys	Leu
1				5					10					15	
Ile	Ala	Asp	Leu	Cys	His	Cys	Tyr	Arg	Asn	Ala	Gly	Glu	Arg	His	Arg
			20					25				30			
Arg	Ser	Gly	Val	Cys	Arg	Ala	Gly	His	Ser	Pro	Cys	Asp	Ala	His	Ala

```
<210> 5795
<211> 186
<212> PRT
<213> Enterobacter cloacae
```

<400> 5795															
Leu	Ala	Gly	Ile	Ala	Gly	Ala	Gln	Leu	Phe	Asn	Ala	Met	Thr	Ala	Tyr
1				5					10					15	
Val	Val	Gly	Thr	Ser	Ala	Asn	Ala	Glu	Gln	Ser	Arg	Ser	Val	Met	Phe
			20					25					30		
Trp	Leu	Leu	Gly	Ser	Leu	Ser	Gly	Val	Arg	Trp	Pro	Asp	Ala	Leu	Leu
		35					40					45			
Ala	Leu	Ala	Val	Thr	Leu	Ala	Gly	Leu	Leu	Val	Val	Leu	Leu	Phe	Ser
	50					55					60				
Arg	Ala	Leu	Asp	Thr	Phe	Thr	Phe	Gly	Asp	Glu	Val	Ser	Thr	Thr	Leu
65					70				75						80
Gly	Ile	Pro	Val	Thr	Ala	Val	Arg	Ile	Val	Leu	Leu	Leu	Thr	Cys	Ala
				85					90					95	
Ile	Val	Thr	Ala	Thr	Leu	Val	Ser	Ala	Thr	Gly	Ala	Val	Gly	Phe	Val

```
<210> 5796
<211> 134
<212> PRT
<213> Enterobacter cloacae
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```
<210> 5797
<211> 192
<212> PRT
<213> Enterobacter cloacae
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<220>
<221> UNSURE
<222> (67)

<220>
<221> UNSURE
<222> (72)

<400> 5797
Leu Thr Tyr Asp Lys Asn Asn Leu Met Ile Lys Leu Ser Asn Ile Thr
1 5 10 15

Lys Val Phe Gln Gln Gly Asn Arg Thr Ile Gln Ala Leu Asn Asn Val
 20 25 30
 Ser Leu His Val Pro Ala Gly Gln Xaa Tyr Gly Val Ile Gly Ala Ser
 35 40 45
 Gly Ala Gly Lys Ser Thr Leu Ile Arg Cys Val Asn Leu Leu Glu Arg
 50 55 60
 Pro Thr Xaa Gly Gln Arg Xaa Xaa Trp Arg Pro Gly Ala His Arg Ser
 65 70 75 80
 Leu Arg Lys Lys Asn Ser Pro Lys Arg Val Ala Gln Ile Gly Met Ile
 85 90 95
 Phe Leu His Phe Asn Leu Leu Ala Ser Arg Ser Val Phe Gly Asn Val
 100 105 110
 Ala Leu Pro Leu Glu Leu Asp Phe Ser Pro Leu Glu Glu Ile Ser Arg
 115 120 125
 Arg Val Ser Glu Leu Leu Asp Leu Val Gly Leu Gly Asp Lys His Asp
 130 135 140
 Ser Tyr Pro Ala Asn Leu Ser Gly Gly Leu Tyr Leu Arg Val Ser Ile
 145 150 155 160
 Ala Arg Ala Leu Ala Asn Asn Pro Lys Val Leu Leu Cys Asp Glu Ser
 165 170 175
 Ser Ser Ala Leu Tyr Pro Ala Thr Thr Arg Ser Ile Leu Glu Leu
 180 185 190

<210> 5798

<211> 161

<212> PRT

<213> Enterobacter cloacae

<400> 5798

Lys Asp Ile Asn Arg Arg Leu Gly Leu Thr Ile Leu Leu Ile Thr His
 1 5 10 15
 Glu Met Asp Val Val Lys Arg Ile Cys Asp Cys Val Ala Val Ile Ser
 20 25 30
 Asn Gly Glu Leu Ile Glu Gln Asp Thr Val Ser Glu Val Phe Ser His
 35 40 45
 Pro Lys Thr Pro Leu Ala Gln Gln Phe Ile Gln Ser Thr Leu His Leu
 50 55 60
 Asp Ile Pro Glu Asp Tyr Leu Glu Arg Leu Lys Thr Glu Ala Val Ala
 65 70 75 80
 Asp Ser Val Pro Met Leu Arg Met Glu Phe Thr Gly Gln Ser Val Asp
 85 90 95
 Ala Pro Leu Leu Ser Glu Thr Ala Arg Arg Phe Asn Val Asn Asn Asn
 100 105 110
 Ile Ile Ser Ala Gln Met Asp Tyr Ala Gly Gly Val Lys Phe Gly Ile
 115 120 125
 Met Leu Thr Glu Met His Gly Thr Gln Glu Glu Thr Gln Ala Ala Ile
 130 135 140
 Ala Trp Leu Gln Glu His His Val Lys Val Glu Val Leu Gly Tyr Val
 145 150 155 160

<210> 5799

<211> 205

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (205)

<400> 5799

```

Arg Tyr Trp Val Met Ser Glu Pro Met Met Trp Leu Leu Val Arg Gly
1      5      10      15
Val Trp Glu Thr Leu Ala Met Thr Phe Val Ser Gly Phe Phe Gly Phe
20      25      30
Val Ile Gly Leu Pro Val Gly Val Leu Leu Tyr Val Thr Arg Pro Gly
35      40      45
Gln Ile Ile Glu Asn Ala Lys Leu Tyr Arg Thr Leu Ser Ala Leu Val
50      55      60
Asn Ile Phe Arg Ser Ile Pro Phe Ile Ile Leu Leu Val Trp Met Ile
65      70      75      80
Pro Phe Thr Arg Val Ile Val Gly Thr Ser Ile Gly Leu Gln Ala Ala
85      90      95
Ile Val Pro Leu Thr Val Gly Ala Ala Pro Phe Ile Ala Arg Met Val
100     105     110
Glu Asn Ala Leu Leu Glu Ile Pro Thr Gly Leu Ile Glu Ala Ser Arg
115     120     125
Ala Met Gly Ala Thr Pro Met Gln Ile Val Arg Lys Val Leu Leu Pro
130     135     140
Glu Ala Leu Pro Gly Leu Val Asn Ala Ala Thr Ile Thr Leu Ile Thr
145     150     155     160
Leu Val Gly Tyr Ser Ala Met Gly Gly Ala Val Gly Ala Gly Gly Leu
165     170     175
Gly Gln Ile Gly Tyr Gln Tyr Gly Tyr Ile Gly Tyr Asn Ala Thr Val
180     185     190
Met Asn Thr Val Leu Val Leu Leu Val Val Leu Val Xaa
195     200     205

```

<210> 5800

<211> 210

<212> PRT

<213> Enterobacter cloacae

<400> 5800

```

Ala Leu Tyr Cys Ala Ala Ile His Glu Ile Leu Ala Glu Gln Ala Phe
1      5      10      15
Phe Arg Ser Lys Pro Val Ala Lys Ser Val Pro Ala Ile Phe Leu Asp
20      25      30
Arg Asp Gly Thr Ile Asn Val Asp His Gly Tyr Val His Glu Ile Asp
35      40      45
Glu Phe Glu Phe Ile Glu Gly Val Ile Asp Ala Met Arg Gln Leu Lys
50      55      60
Glu Met Gly Tyr Ala Leu Val Val Val Thr Asn Gln Ser Gly Ile Ala
65      70      75      80
Arg Gly Lys Phe Thr Glu Ala Gln Phe Glu Thr Leu Thr Glu Trp Met
85      90      95
Asp Trp Ser Leu Ala Asp Arg Gly Val Asp Leu Asp Gly Ile Tyr Tyr
100     105     110
Cys Pro His His Pro Gln Gly Ser Val Glu Ala Tyr Arg Gln Thr Cys
115     120     125
Asp Cys Arg Lys Pro His Pro Gly Met Phe Ile Ser Ala Gln Glu Phe
130     135     140
Leu His Ile Asp Met Ala Ala Ser Tyr Met Val Gly Asp Lys Leu Glu
145     150     155     160
Asp Met Gln Ala Ala Thr Ala Ala Gly Val Gly Thr Lys Val Leu Val
165     170     175
Arg Thr Gly Lys Pro Val Thr Pro Glu Ala Glu Asn Ala Ala Asp Trp
180     185     190
Val Ile Thr Ser Leu Ala Glu Leu Pro Lys Glu Ile Lys Lys His Gln
195     200     205

```

Lys

210

<210> 5801

<211> 175

<212> PRT

<213> Enterobacter cloacae

<400> 5801

Arg	Arg	Trp	Lys	Phe	Ser	Tyr	Tyr	Pro	Leu	Tyr	Cys	Pro	Ile	Pro	Leu
1				5					10					15	
Pro	Arg	Gly	His	Tyr	Gly	Leu	Asn	Thr	Ser	Met	Ser	Gln	Thr	Glu	Thr
			20					25					30		
Thr	Ala	Pro	Ser	Lys	Phe	Ser	Leu	Leu	Pro	Gly	Ser	Ile	Thr	Arg	Phe
			35				40					45			
Phe	Leu	Leu	Leu	Ile	Val	Val	Leu	Leu	Val	Thr	Met	Gly	Val	Met	Ile
	50					55					60				
Gln	Ser	Ala	Val	Asn	Thr	Trp	Leu	Lys	Asp	Lys	Ser	Tyr	Gln	Ile	Val
65					70					75				80	
Asp	Ile	Thr	His	Ala	Val	His	Lys	Arg	Ile	Asp	Thr	Trp	Arg	Tyr	Ala
			85						90					95	
Thr	Trp	Gln	Ile	Tyr	Asp	Asn	Ile	Ala	Ala	Ala	Pro	Ala	Thr	Ser	Ser
			100					105					110		
Gly	Glu	Gly	Leu	Gln	Glu	Thr	Arg	Leu	Lys	Gln	Asp	Val	Tyr	Tyr	Leu
		115					120					125			
Glu	Lys	Pro	Gln	Arg	Lys	Thr	Glu	Ala	Leu	Ile	Phe	Gly	Ser	His	Asp
		130				135					140				
Ser	Ala	Thr	Leu	Glu	Ile	Tyr	Gln	Arg	Ile	Ser	Ser	Tyr	Leu	Asp	Thr
145					150					155				160	
Leu	Trp	Gly	Pro	Glu	Asn	Val	Thr	Val	Val	Pro	Cys	Ile	Thr		
				165					170					175	

<210> 5802

<211> 143

<212> PRT

<213> Enterobacter cloacae

<400> 5802

Leu	Leu	Ile	Lys	Asp	Glu	Leu	Phe	Ile	Gln	Glu	Ile	Lys	Met	Lys	Gln
1				5					10					15	
Thr	Arg	Leu	Val	Leu	Ala	Gly	Ile	Leu	Val	Leu	Ala	Pro	Val	Phe	Ser
			20					25					30		
Ala	Met	Ala	Ala	Pro	Gln	Ala	Ala	Thr	Gly	Cys	Glu	Ala	Lys	Arg	Gln
		35					40					45			
Asn	Ile	Glu	Gln	Gln	Ile	Glu	His	Ala	Arg	Thr	His	Asn	Asn	Asp	His
		50				55					60				
Arg	Val	Ala	Gly	Leu	Gln	Lys	Ala	Leu	Ser	Glu	Leu	Asn	Ala	Asn	Cys
65					70					75				80	
Thr	Glu	Glu	Gly	Leu	Arg	Ala	Glu	Arg	Gln	Ala	Asp	Val	Arg	Glu	Lys
			85						90					95	
Glu	Arg	Lys	Val	Glu	Glu	Arg	Arg	Gln	Glu	Leu	Ala	Glu	Ala	Gln	Ala
			100					105					110		
Asp	Gly	Arg	Thr	Asp	Lys	Ile	Ser	Lys	Lys	Glu	Arg	Lys	Leu	Lys	Asp
		115					120					125			
Ala	Gln	Ala	Glu	Leu	Asp	Glu	Ala	Arg	Ser	Val	Leu	Asn	Lys		
		130				135					140				

<210> 5803

<211> 218

<212> PRT

<213> Enterobacter cloacae

<400> 5803

```

Arg Thr Gln Pro Met Ala Gly Phe Leu Leu Phe Cys Pro Arg Tyr Ala
1      5      10      15
Leu Asn Phe Pro Phe Cys Gln Val Ile Val Ile Phe Phe Pro Asp Asn
      20      25      30
Glu Asn Asp Met Thr Leu Ser Ala Leu Lys Ala Gly Ser Leu Leu Leu
      35      40      45
Leu Met Ile Leu Phe Tyr Thr Gly Leu Phe Thr Ser Asp Arg Val Thr
      50      55      60
Trp Leu Met Glu Val Thr Pro Val Ile Ile Ile Ile Pro Leu Leu Leu
65      70      75      80
Ala Thr His Arg Arg Tyr Pro Leu Thr Pro Leu Leu Tyr Thr Leu Val
      85      90      95
Phe Phe His Ala Ile Ile Leu Met Val Gly Gly Met Tyr Thr Tyr Ala
      100      105      110
Lys Val Pro Val Gly Phe Glu Val Gln Glu Met Leu Gly Leu Ser Arg
      115      120      125
Asn Pro Tyr Asp Lys Leu Gly His Phe Phe Gln Gly Leu Val Pro Ala
130      135      140
Leu Ala Ala Arg Glu Ile Leu Leu Arg Gly Gly Tyr Val Arg Gly His
145      150      155      160
Lys Met Thr Gly Phe Leu Val Cys Cys Val Ala Leu Ala Ile Ser Ala
      165      170      175
Thr Phe Asn Ser Leu Ser Gly Gly Leu Leu Trp Arg Trp Asp Arg Val
      180      185      190
Arg Met Ile Phe Trp Gly Arg Arg Ala Ile His Gly Ile Pro Ser Leu
      195      200      205
Ile Cys Phe Ala Arg Cys Leu Val Arg
      210      215

```

<210> 5804

<211> 63

<212> PRT

<213> Enterobacter cloacae

<400> 5804

```

Leu Ile Glu Trp Trp Ala Ala Leu Ala Met Gly Gln Gly Ala Asp Asp
1      5      10      15
Phe Leu Gly Thr Gln Gly Asp Pro Trp Asp Thr Gln Ser Asp Met Phe
      20      25      30
Cys Ala Leu Leu Gly Ala Leu Thr Thr Val Leu Ile Leu Gly Arg Phe
      35      40      45
His Gln Arg Gln Leu Arg Arg Leu Asn Val Asp Ser Ala Leu
      50      55      60

```

<210> 5805

<211> 123

<212> PRT

<213> Enterobacter cloacae

<400> 5805

```

Met Cys Pro Pro Arg Leu Leu Lys Thr Cys Gly Ala Glu Ile Ala Ile
1      5      10      15
Ser Ile Pro Ala His Val Arg Leu Val Met Val Ala Glu Ala Pro Pro
      20      25      30
Ala Leu Asn Glu Pro Leu Ile Glu Asp Val Leu Arg Ser Leu Lys Val
      35      40      45
Thr His Asp Gln Val Leu Gln Leu Ala Pro Glu Ser Val Ala Met Leu
      50      55      60
Pro Ser Asp Ser Arg Cys Asn Ser Trp Arg Ile Gly Ala Val Asp Glu
65      70      75      80

```

Leu Pro Leu Glu Gly Ser Gln Ile Ser Ser Pro Ala Leu Asp Glu Leu
 85 90 95
 Lys Ala Asn Pro Lys Ala Arg Ser Ala Leu Trp Gln Gln Ile Cys Glu
 100 105 110
 Tyr Glu His Asp Phe Phe Pro His Asp Gly
 115 120

<210> 5806

<211> 164

<212> PRT

<213> Enterobacter cloacae

<400> 5806

Lys Pro Thr Gln Lys Arg Val Ala Arg Tyr Gly Asn Lys Phe Ala Asn
 1 5 10 15
 Met Asn Thr Ile Ser Ser Leu Thr Thr Ala Asp Leu Thr Thr Ala Phe
 20 25 30
 Ala Ile Glu Thr Arg Ala His Ala Phe Pro Trp Ser Glu Lys Thr Phe
 35 40 45
 Ala Ser Asn Gln Gly Glu Arg Tyr Leu Asn Leu Arg Leu Asp Val Asp
 50 55 60
 Gly Ala Met Ala Ala Phe Ala Ile Thr Gln Val Val Leu Asp Glu Ala
 65 70 75 80
 Thr Leu Phe Asn Ile Ala Val Asp Pro Ala Tyr Gln Arg Arg Gly Leu
 85 90 95
 Gly Arg Glu Leu Leu Glu His Leu Ile His Glu Leu Glu Thr Arg Asp
 100 105 110
 Val Phe Thr Leu Trp Leu Glu Val Arg Ala Ser Asn Val Ala Ala Ile
 115 120 125
 Ala Leu Tyr Glu Ser Leu Gly Phe Asn Glu Ala Thr Ile Arg Arg Asn
 130 135 140
 Tyr Tyr Pro Thr Ala Glu Gly Arg Glu Asp Ala Ile Ile Met Ala Leu
 145 150 155 160
 Pro Ile Gly

<210> 5807

<211> 117

<212> PRT

<213> Enterobacter cloacae

<400> 5807

Glu Glu Leu Ile Met Thr Leu Ser Pro Tyr Leu Gln Glu Val Ala Lys
 1 5 10 15
 Arg Arg Thr Phe Ala Ile Ile Ser His Pro Asp Ala Gly Lys Thr Thr
 20 25 30
 Ile Thr Glu Lys Val Leu Leu Phe Gly Gln Ala Ile Gln Thr Ala Gly
 35 40 45
 Thr Val Lys Gly Arg Gly Ser Ser Gln His Ala Lys Ser Asp Trp Met
 50 55 60
 Glu Met Glu Lys Gln Arg Gly Ile Ser Ile Thr Thr Ser Val Met Gln
 65 70 75 80
 Phe Pro Tyr His Asp Cys Leu Val Asn Leu Leu Asp Thr Pro Gly His
 85 90 95
 Glu Asp Phe Ser Glu Asp Thr Tyr Arg Thr Leu Thr Gly Pro Glu Val
 100 105 110
 Phe Thr Ser Asp
 115

<210> 5808

<211> 262

<212> PRT

<213> Enterobacter cloacae

<400> 5808

Ala	Ser	Thr	Arg	Arg	Leu	Ser	Ala	Val	Thr	Thr	Thr	Pro	Pro	Gln	Arg
1				5					10					15	
Asp	Val	Lys	Thr	Pro	Leu	Ser	Trp	Leu	Cys	Arg	Leu	Asp	Asn	Glu	Asn
			20					25					30		
Lys	Val	Val	Thr	Met	Lys	Trp	Asp	Trp	Ile	Phe	Phe	Asp	Ala	Asp	Glu
		35					40					45			
Thr	Leu	Phe	Thr	Phe	Asp	Ser	Phe	Gly	Gly	Leu	Gln	Arg	Met	Phe	Leu
	50					55					60				
Asp	Tyr	Ser	Val	Thr	Phe	Thr	Ala	Glu	Asp	Phe	Gln	Asp	Tyr	Gln	Ala
65					70					75				80	
Val	Asn	Lys	Pro	Leu	Trp	Val	Asp	Tyr	Gln	Asn	Gly	Ala	Ile	Thr	Ala
				85					90					95	
Leu	Gln	Leu	Gln	His	Gln	Arg	Phe	Asp	Val	Trp	Ala	Glu	Arg	Leu	Asn
			100					105					110		
Val	Ser	Pro	Gly	Val	Leu	Asn	Glu	Ala	Phe	Leu	Asn	Ala	Met	Ala	Asp
		115					120					125			
Ile	Cys	Ala	Pro	Leu	Pro	Gly	Ala	Val	Ser	Leu	Leu	Asp	Ser	Leu	Lys
	130					135						140			
Gly	Lys	Val	Lys	Leu	Gly	Ile	Ile	Thr	Asn	Gly	Phe	Thr	Ala	Leu	Gln
145					150					155					160
Gln	Ile	Arg	Leu	Glu	Arg	Thr	Gly	Leu	Arg	Asp	His	Phe	Asp	Ala	Leu
				165					170					175	
Val	Ile	Ser	Glu	Glu	Val	Gly	Val	Pro	Lys	Pro	Asp	Pro	Arg	Ile	Phe
			180					185					190		
Asp	Tyr	Ala	Leu	Ala	Gln	Ala	Gly	Asn	Pro	Asp	Arg	Asp	Arg	Val	Leu
		195					200					205			
Met	Val	Gly	Asp	Thr	Ala	Glu	Ser	Asp	Ile	Leu	Gly	Gly	Met	Arg	Ser
	210					215					220				
Gly	Leu	Ser	Thr	Val	Trp	Leu	Asn	Ala	His	Gly	Arg	Met	Leu	Pro	Glu
225					230					235					240
Gly	Ile	Glu	Pro	Thr	Trp	Thr	Val	Thr	Ser	Leu	Asn	Glu	Leu	Glu	Gln
				245					250					255	
Leu	Leu	Cys	Lys	Gln											
			260												

<210> 5809

<211> 232

<212> PRT

<213> Enterobacter cloacae

<400> 5809

Lys	Pro	Asn	Asp	Arg	Leu	Leu	Lys	Arg	Ser	Val	Phe	Phe	Met	Ser	Arg
1				5					10					15	
Ser	Leu	Leu	Thr	Asn	Glu	Thr	Ser	Glu	Leu	Asp	Leu	Leu	Asp	Gln	Arg
			20					25					30		
Pro	Phe	Asp	Gln	Thr	Asp	Phe	Asp	Ile	Leu	Lys	Ser	Tyr	Glu	Ala	Val
		35					40					45			
Val	Asp	Gly	Leu	Ala	Met	Leu	Ile	Gly	Ser	His	Cys	Glu	Ile	Val	Leu
	50					55					60				
His	Ser	Leu	Gln	Asp	Leu	Lys	Cys	Ser	Ala	Ile	Arg	Ile	Ala	Asn	Gly
65					70					75				80	
Glu	His	Thr	Gly	Arg	Lys	Ile	Gly	Ser	Pro	Ile	Thr	Asp	Leu	Ala	Leu
				85					90					95	
Arg	Met	Leu	His	Asp	Met	Thr	Gly	Ala	Asp	Ser	Ser	Val	Ser	Lys	Cys
			100					105					110		
Tyr	Phe	Thr	Arg	Ala	Lys	Ser	Gly	Val	Leu	Met	Lys	Ser	Glu	Thr	Ile
		115					120					125			

Ala Ile Arg Asn Arg Glu His Arg Val Ile Gly Leu Leu Cys Ile Asn
 130 135 140
 Met Asn Leu Asp Val Pro Phe Ser Gln Ile Met Ser Thr Phe Ile Pro
 145 150 155 160
 Pro Glu Thr Pro Asp Val Gly Ser Ser Val Asn Phe Ala Ser Ser Val
 165 170 175
 Glu Asp Leu Val Thr Gln Thr Leu Glu Phe Thr Ile Glu Glu Val Asn
 180 185 190
 Ala Asp Arg Asn Val Ser Asn Asn Ala Lys Asn Arg Gln Ile Val Leu
 195 200 205
 Asn Leu Tyr Glu Lys Gly Ile Leu Ile Ser Lys Met Pro Ser Thr Gln
 210 215 220
 Trp Pro Asp Arg Leu Asn Ile Ser
 225 230

<210> 5810

<211> 228

<212> PRT

<213> Enterobacter cloacae

<400> 5810

Arg Pro Glu Ile Arg Tyr Ala Leu Gly Ser Phe Leu Gly Arg Tyr Met
 1 5 10 15
 Glu Asn Ser Leu Lys Glu Gln Glu Lys Leu Gly Ile Lys Leu Asp Lys
 20 25 30
 Asn Gln Leu Ile Ala Gly Val Gln Asp Ala Phe Ala Asp Lys Ser Lys
 35 40 45
 Leu Ser Asp Gln Glu Ile Glu Gln Thr Leu Gln Ala Phe Glu Ala Arg
 50 55 60
 Val Lys Gly Ala Ala Gln Thr Lys Met Glu Ala Asp Ala Lys Asp Asn
 65 70 75 80
 Glu Ala Lys Gly Lys Ala Tyr Arg Asp Lys Phe Ala Lys Glu Lys Gly
 85 90 95
 Val Lys Thr Ser Ser Thr Gly Leu Ile Tyr Lys Val Glu Lys Glu Gly
 100 105 110
 Thr Gly Asp Ala Pro Lys Asp Ser Asp Thr Val Val Val Asn Tyr Lys
 115 120 125
 Gly Thr Leu Ile Asp Gly Lys Glu Phe Asp Asn Ser Tyr Thr Arg Gly
 130 135 140
 Glu Pro Leu Ser Phe Arg Leu Asp Gly Val Ile Pro Gly Trp Thr Glu
 145 150 155 160
 Gly Leu Lys Asn Ile Lys Lys Gly Gly Lys Ile Lys Leu Val Ile Pro
 165 170 175
 Pro Asp Leu Ala Tyr Gly Lys Thr Gly Val Pro Gly Ile Pro Ala Asn
 180 185 190
 Ser Thr Leu Val Phe Asp Val Glu Leu Leu Asp Ile Lys Pro Ala Pro
 195 200 205
 Lys Ala Asp Ala Lys Thr Asp Ala Pro Ala Asp Asp Lys Ala Ala Ala
 210 215 220
 Ala Lys Lys
 225

<210> 5811

<211> 443

<212> PRT

<213> Enterobacter cloacae

<400> 5811

Thr Ser Pro Cys Asn Leu Ser Arg Ser Phe Gly Pro Leu Val Lys Ile
 1 5 10 15
 Ala Thr Ala Thr Asp Arg Leu Lys Ala Ile Leu Ile His Gly Val Asn

```
<210> 5812
<211> 223
<212> PRT
<213> Enterobacter cloacae
```

<400> 5812
Gly Ser Thr Met Tyr Gln His His Asn Trp Gln Gly Ala Leu Leu Asp


```

1           5           10           15
Tyr Pro Val Ser Lys Val Val Cys Val Gly Ser Asn Tyr Ala Lys His
20           25           30
Ile Gln Glu Met Gly Ser Ala Val Pro Glu Glu Pro Val Leu Phe Ile
35           40           45
Lys Pro Glu Thr Ala Leu Cys Asp Ile Arg Gln Pro Leu Val Leu Pro
50           55           60
Gln Gly Leu Gly Ser Val His His Glu Val Glu Leu Ala Val Leu Ile
65           70           75           80
Gly Ala Thr Leu Arg Gln Ala Thr Glu Glu His Val Glu Lys Ala Ile
85           90           95
Ala Gly Tyr Gly Val Ala Leu Asp Leu Thr Leu Arg Asp Val Gln Gly
100          105          110
Lys Met Lys Lys Ala Gly Gln Pro Trp Glu Lys Ala Lys Gly Phe Asp
115          120          125
Asn Ser Cys Pro Ile Ser Gly Phe Ile Pro Val Ser Glu Phe Thr Asp
130          135          140
Asp Pro Gln Asn Thr Pro Leu Ser Leu Lys Val Asn Gly Glu Ile Arg
145          150          155          160
Gln Gln Gly Thr Thr Ala Asp Met Ile His Lys Ile Val Pro Leu Ile
165          170          175
Ala Tyr Met Ser Arg Phe Phe Thr Leu Lys Pro Gly Asp Val Ile Leu
180          185          190
Thr Gly Thr Pro Glu Gly Val Gly Pro Leu Leu Ser Gly Asp Glu Leu
195          200          205
Asp Val Ser Phe Asn Gly Leu Ser Leu Lys Thr Arg Val Leu
210          215          220

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<210> 5813

<211> 134

<212> PRT

<213> Enterobacter cloacae

<400> 5813

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His Pro Gly Leu Thr Gln Phe Ala Ile Asn Arg Asn Thr Ser Pro Arg
1           5           10           15
Tyr Ser Glu Glu Tyr Gln Ala Cys Tyr Ser Gln Glu Tyr Ile Glu Ala
20           25           30
Ser Asn His Pro Leu Ile Gln Ser Lys Asn Met Phe Cys Val Ile Tyr
35           40           45
Arg Ser Thr Ser Arg Asp Gln Thr Tyr Leu Tyr Val Glu Lys Lys Asp
50           55           60
Asp Phe Ser Arg Val Pro Glu Glu Leu Met Lys Ser Phe Gly Arg Pro
65           70           75           80
Gln Leu Ala Met Leu Leu Pro Leu Asp Gly Arg Lys Lys Leu Val Asn
85           90           95
Ala Asp Leu Glu Lys Val Lys Lys Ala Leu Thr Glu Gln Gly Tyr Tyr
100          105          110
Leu Gln Leu Pro Pro Pro Pro Glu Asn Leu Leu Lys Gln His Leu Glu
115          120          125
Val Ser Gly Lys Lys
130

```

<210> 5814

<211> 242

<212> PRT

<213> Enterobacter cloacae

<400> 5814

```

Gln Gly Ile Ser Met Ala Arg Ile Ile Val Val Thr Ser Gly Lys Gly
1           5           10           15

```

Gly Val Gly Lys Thr Thr Ser Ser Ala Ala Ile Ala Thr Gly Leu Ala
 20 25 30
 Gln Lys Gly Lys Lys Thr Val Val Ile Asp Phe Asp Ile Gly Leu Arg
 35 40 45
 Asn Leu Asp Leu Ile Met Gly Cys Glu Arg Arg Val Val Tyr Asp Phe
 50 55 60
 Val Asn Val Ile Gln Gly Asp Ala Thr Leu Asn Gln Ala Leu Ile Lys
 65 70 75 80
 Asp Lys Arg Thr Glu Asn Leu Tyr Ile Leu Pro Ala Ser Gln Thr Arg
 85 90 95
 Asp Lys Asp Ala Leu Thr Arg Glu Gly Val Glu Lys Val Leu Asp Asp
 100 105 110
 Leu Lys Lys Met Glu Phe Asp Phe Val Val Cys Asp Ser Pro Ala Gly
 115 120 125
 Ile Glu Thr Gly Ala Leu Met Ala Leu Tyr Phe Ala Asp Glu Ala Ile
 130 135 140
 Ile Thr Thr Asn Pro Glu Val Ser Ser Val Arg Asp Ser Asp Arg Ile
 145 150 155 160
 Leu Gly Ile Leu Ala Ser Lys Ser Arg Arg Ala Glu Asn Gly Gln Glu
 165 170 175
 Pro Ile Lys Glu His Leu Leu Leu Thr Arg Tyr Asn Pro Gly Arg Val
 180 185 190
 Asn Lys Gly Asp Met Leu Ser Met Glu Asp Val Leu Glu Ile Leu Arg
 195 200 205
 Ile Lys Leu Val Gly Val Ile Pro Glu Asp Gln Ser Val Leu Arg Ala
 210 215 220
 Ser Asn Gln Gly Glu Pro Leu Ile Leu Asp Thr Gln Ala Glu Ala Gly
 225 230 235 240
 Lys Ala

<210> 5815

<211> 269

<212> PRT

<213> Enterobacter cloacae

<400> 5815

Arg Val Val Ala Cys Leu Asn Ile Leu Leu Thr Ile Thr Cys Leu Ile
 1 5 10 15
 Leu Phe Gly Ile Ser Arg Arg Cys Val Ala Val Asn Ser Lys Leu Ser
 20 25 30
 Lys Ala Arg Met Ser Asn Thr Pro Ile Glu Leu Lys Gly Ser Ser Phe
 35 40 45
 Thr Leu Ser Val Val His Leu His Asp Ala Lys Pro Glu Val Ile Arg
 50 55 60
 Gln Ala Leu Glu Asp Lys Ile Ala Gln Ala Pro Ala Phe Leu Lys His
 65 70 75 80
 Ala Pro Val Val Val Asn Val Ser Asp Leu Glu Gly Pro Val Asn Trp
 85 90 95
 Lys Arg Leu Gln Gln Ala Val Thr Ser Thr Gly Leu Arg Ile Val Gly
 100 105 110
 Ile Ser Gly Cys Lys Asp Ala Glu Leu Lys Ala Glu Ile Glu Arg Ala
 115 120 125
 Gly Leu Pro Leu Leu Asn Glu Gly Lys Glu Lys Ala Pro Arg Ala Thr
 130 135 140
 Pro Ala Thr Val Pro Ala Pro Pro Pro Pro Ala Gln Asn Val Ala Pro
 145 150 155 160
 Val Thr Lys Thr Arg Leu Ile Asp Leu Pro Val Arg Ser Gly Gln Arg
 165 170 175
 Ile Tyr Ala Pro Asn Cys Asp Leu Ile Val Thr Ser His Val Ser Ala
 180 185 190

Gly	Ala	Glu	Leu	Ile	Ala	Asp	Gly	Asn	Ile	His	Val	Tyr	Gly	Met	Met
		195					200					205			
Arg	Gly	Arg	Ala	Leu	Ala	Gly	Ala	Ser	Gly	Asp	Arg	Glu	Ala	Gln	Ile
	210					215					220				
Phe	Cys	Thr	His	Leu	Thr	Ala	Glu	Leu	Val	Ser	Ile	Ala	Gly	Glu	Tyr
225					230					235					240
Trp	Leu	Ser	Asp	Lys	Ile	Pro	Ala	Glu	Phe	Tyr	Gly	Lys	Ala	Ala	Arg
			245						250					255	
Leu	Gln	Leu	Ala	Asp	Asn	Ala	Leu	Thr	Val	Gln	Pro				
			260					265							

<210> 5816

<211> 616

<212> PRT

<213> Enterobacter cloacae

<400> 5816

Phe	Val	Gln	Leu	Ile	Asn	Leu	Leu	Ser	Ile	Arg	Ser	Ile	Arg	Arg	Trp
1				5					10					15	
Leu	Asn	Arg	Ser	His	Gly	Leu	Met	Asn	Arg	Lys	Ile	Tyr	Asn	Asn	Val
			20					25					30		
Lys	Ile	Phe	Met	Ile	Val	Leu	Ala	Leu	Ser	Leu	Ile	Thr	Ile	Pro	Phe
		35					40					45			
Ser	Arg	Tyr	Ile	Ser	Pro	Arg	Ala	Ile	Val	Asn	Glu	Asn	Asp	Val	Tyr
	50					55				60					
Leu	Ala	Trp	Leu	Pro	Leu	Ser	Ala	Met	Leu	Ala	Ile	Val	Leu	Leu	Phe
65					70					75					80
Gly	Arg	Arg	Ala	Ile	Pro	Leu	Leu	Ile	Gly	Phe	Ser	Val	Thr	Asn	
			85					90					95		
Ile	Tyr	Tyr	Phe	Asp	Leu	Ala	Leu	Leu	Gln	Ser	Ser	Val	Leu	Leu	Ile
			100					105					110		
Cys	Gln	Thr	Phe	Ala	Val	Phe	Ala	Ala	Cys	Gly	Val	Ile	Arg	Leu	Met
		115					120					125			
Leu	Gly	Lys	Arg	Trp	Arg	His	Ser	Ile	Pro	Asn	Lys	Tyr	Ile	Gly	Ile
	130					135					140				
Arg	Ile	Phe	Trp	Leu	Gly	Phe	Val	Val	Pro	Val	Gly	Ile	Lys	Leu	Ser
145					150					155					160
Met	Tyr	Leu	Ala	Gly	Tyr	Leu	Phe	Asp	Phe	Pro	Val	Thr	Ile	Ser	Ser
			165					170						175	
Tyr	Phe	Gly	Glu	Gly	Ser	Ala	Ile	Tyr	Asn	Val	Ile	Asp	Ile	Gln	Ser
			180					185					190		
Leu	Ile	Cys	Ala	Ala	Leu	Ile	Phe	Thr	Met	Met	Phe	Tyr	Tyr	Pro	Leu
		195					200					205			
Arg	Met	Ile	Ile	Asn	Pro	Arg	Tyr	Ala	Arg	Thr	Phe	Trp	Arg	Arg	Ser
	210					215					220				
Val	Lys	Pro	Leu	Phe	Cys	His	Lys	Lys	Val	Leu	Phe	Ile	Val	Val	Trp
225					230					235					240
Leu	Met	Leu	Leu	Val	Ser	Met	Ile	Ala	Ile	Leu	Cys	Ala	Pro	Phe	Glu
				245					250					255	
Ser	Gln	Phe	Ile	Ala	Gly	Tyr	Leu	Met	Pro	Ile	Val	Phe	Ile	Leu	Phe
			260					265					270		
Thr	Leu	Gly	Ile	Gly	Arg	Leu	Ser	Tyr	Ala	Leu	Ile	Ser	Leu	Leu	Trp
		275					280					285			
Ala	Ala	Ser	Ala	Leu	Met	Leu	Leu	Thr	Tyr	Asn	Tyr	Asn	Phe	Leu	Asn
	290					295					300				
Gly	Val	Glu	Ser	Gly	His	Ser	Leu	Ser	Phe	Ile	Leu	Ser	Val	Leu	Ile
305					310					315					320
Ser	Phe	Ala	Ile	Cys	Leu	Leu	Tyr	Met	Ser	Arg	Ile	Tyr	Gln	Lys	Ser
				325					330					335	
Glu	Trp	Leu	Lys	Gln	Gly	Trp	Gln	Glu	Arg	Ala	Leu	Thr	Asp	Pro	Leu
			340					345					350		

```

Thr Gly Leu Pro Asn Ile Arg Ala Leu Glu Val Phe Leu Gln His His
      355      360      365
Pro Glu Ala Lys Ile Cys Cys Leu Arg Leu Asp Asn Leu Glu Phe Leu
      370      375      380
Ser Arg His Tyr Gly Ile Leu Met Arg Val His Cys Lys Lys Met Ile
385      390      395      400
Thr Ala Ser Leu Gln Pro Leu Leu Gln Lys Asp Glu Lys Leu Phe Gln
      405      410      415
Leu Pro Gly Ser Glu Leu Val Val Val Leu Leu Gly Pro Gly Thr Ala
      420      425      430
Glu Arg Leu Gln Tyr Met Val Asp His Leu Asn Ser Arg Lys Ile Val
      435      440      445
Trp Asn Lys Thr Glu Leu Asp Ile Glu Phe Gly Ala Ser Trp Gly Glu
      450      455      460
Val Pro Asp Gly Glu Ser Leu His His Thr Leu Gly Gln Leu Ser Trp
465      470      475      480
Leu Ser Glu Gln Ser Cys Gly Gly His Asn Val Leu Ala Leu Thr Asn
      485      490      495
Ser Leu Asp Asp Val Ser Gly Gln Thr Thr Asp Arg Val Leu Met Leu
      500      505      510
Ala Arg Ile Lys Arg Ala Leu Asp Ile Gly Gly Leu His Leu Tyr Ala
      515      520      525
Gln Pro Ile His Thr Ala Arg Gly Glu Arg Tyr Phe Asp Ile Pro Ser
      530      535      540
Thr Leu Glu Ser Asp Gly Glu Ile Leu His Pro Asp Arg Leu Ile Pro
545      550      555      560
Pro Met Ala Gln Phe Asn Leu Asn Pro Arg Phe Asp Ser Asn Phe Trp
      565      570      575
Asn Lys Cys Gly Cys Arg Phe Ala Thr Thr Pro Leu Glu Leu Ile Glu
      580      585      590
Ser Pro Pro Arg Gln Thr Asp Ala Leu Asn Leu Lys Gln His Lys Met
      595      600      605
Gly Ala Lys Phe Phe Ala Phe
      610      615

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<210> 5817

<211> 502

<212> PRT

<213> Enterobacter cloacae

<400> 5817

```

Arg Ala Gly Phe Val Glu Asn Val Ala Ala Thr Ala Gln Thr Val Glu
1      5      10      15
Gln Leu Leu Lys Leu Gly Phe Thr Val Ala Ile Glu Ser Gly Ala Gly
      20      25      30
Thr Leu Ala Ser Phe Asp Asp Glu Ala Phe Thr Gln Ala Gly Ala Asp
      35      40      45
Val Val Asp Gly Ala Glu Val Trp Gln Ser Pro Ile Ile Leu Lys Val
      50      55      60
Asn Ala Pro Glu Glu Gly Glu Ile Glu Leu Leu Asn Ala Gly Thr Thr
65      70      75      80
Leu Val Ser Phe Val Trp Pro Ala Gln Asn Pro Glu Leu Met Glu Lys
      85      90      95
Leu Ala Ala Arg Gly Val Thr Val Met Ala Met Asp Ser Val Pro Arg
      100      105      110
Ile Ser Arg Ala Gln Ser Leu Asp Ala Leu Ser Ser Met Ala Asn Ile
      115      120      125
Ala Gly Tyr Arg Ala Ile Val Glu Ala Ala His Glu Phe Gly Arg Phe
130      135      140
Phe Thr Gly Gln Ile Thr Ala Ala Gly Lys Val Pro Pro Ala Lys Val
145      150      155      160

```

Met	Val	Ile	Gly	Ala	Gly	Val	Ala	Gly	Leu	Ala	Ala	Ile	Gly	Ala	Ala		
				165					170					175			
Asn	Ser	Leu	Gly	Ala	Ile	Val	Arg	Ala	Phe	Asp	Thr	Arg	Pro	Glu	Val		
			180					185					190				
Lys	Glu	Gln	Val	Gln	Ser	Met	Gly	Ala	Glu	Phe	Leu	Glu	Leu	Asp	Phe		
		195					200					205					
Lys	Glu	Glu	Ala	Gly	Ser	Gly	Asp	Gly	Tyr	Ala	Lys	Val	Met	Ser	Glu		
	210					215					220						
Ala	Phe	Ile	Lys	Ala	Glu	Met	Ala	Leu	Phe	Ala	Ala	Gln	Ala	Lys	Glu		
225					230					235					240		
Val	Asp	Ile	Ile	Val	Thr	Thr	Ala	Leu	Ile	Pro	Gly	Lys	Pro	Ala	Pro		
				245					250					255			
Lys	Leu	Ile	Thr	Arg	Glu	Met	Val	Asp	Ser	Met	Gln	Pro	Gly	Ser	Val		
			260					265					270				
Ile	Val	Asp	Leu	Ala	Ala	Gln	Asn	Gly	Gly	Asn	Cys	Glu	Tyr	Thr	Val		
		275					280					285					
Pro	Asn	Gln	Val	Thr	Thr	Thr	Ala	Asn	Gly	Val	Lys	Val	Ile	Gly	Tyr		
	290					295					300						
Thr	Asp	Leu	Pro	Gly	Arg	Leu	Pro	Thr	Gln	Ser	Ser	Gln	Leu	Tyr	Gly		
305					310					315					320		
Thr	Asn	Leu	Val	Asn	Leu	Leu	Lys	Leu	Leu	Cys	Lys	Glu	Lys	Asp	Gly		
				325					330					335			
Asn	Ile	Thr	Val	Asp	Phe	Asp	Asp	Val	Val	Val	Arg	Gly	Val	Thr	Val		
			340					345					350				
Val	Arg	Glu	Gly	Glu	Ile	Thr	Trp	Pro	Ala	Pro	Pro	Ile	Gln	Val	Ser		
		355					360					365					
Ala	Gln	Pro	Gln	Ala	Ala	Pro	Lys	Ala	Ala	Pro	Glu	Pro	Ala	Glu	Pro		
	370					375					380						
Ala	Lys	Pro	Ala	Ser	Pro	Trp	Arg	Lys	Tyr	Ala	Ile	Met	Ala	Leu	Val		
385					390					395					400		
Ile	Ile	Leu	Phe	Gly	Trp	Leu	Ala	Asp	Val	Ala	Pro	Lys	Glu	Phe	Leu		
				405					410					415			
Gly	His	Phe	Thr	Val	Phe	Ala	Leu	Ser	Cys	Val	Val	Gly	Tyr	Tyr	Val		
			420					425					430				
Val	Trp	Asn	Val	Ser	His	Ala	Leu	His	Thr	Pro	Leu	Met	Ser	Val	Thr		
		435					440					445					
Asn	Ala	Ile	Ser	Gly	Ile	Ile	Val	Val	Gly	Ala	Leu	Leu	Gln	Ile	Gly		
	450					455					460						
His	Gly	Gly	Trp	Ile	Ser	Phe	Leu	Ser	Phe	Ile	Ala	Val	Leu	Ile	Ala		
465					470					475					480		
Ser	Ile	Asn	Ile	Phe	Gly	Gly	Phe	Thr	Val	Thr	Gln	Arg	Met	Leu	Lys		
				485					490					495			
Met	Phe	Arg	Lys	Gly													
			500														

<210> 5818

<211> 193

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (13)

<220>

<221> UNSURE

<222> (58)

<220>

<221> UNSURE

<222> (83)

<400> 5818

Gln Arg Gly Asn Leu Ile Trp Thr Trp Tyr Gly Ala Xaa Ile Phe His
 1 5 10 15
 Thr Pro Val Asn Glu Val Ala His Gly Lys Trp Ala Leu Leu Thr Ser
 20 25 30
 Gly Ser Lys Ser Phe His Ile Pro Ala Leu Thr Gly Ala Trp Gly Leu
 35 40 45
 Phe Ala Asp Asp Ala Ser Arg Asn Ala Xaa Leu Asn Ala Leu Lys Gly
 50 55 60
 Arg Asp Gly Leu Ser Ser Leu Ser Val Leu Ala Leu Thr Ala His Ile
 65 70 75 80
 Ala Ala Xaa Arg Gln Gly Glu Pro Trp Leu Asp Ala Leu Arg Thr Tyr
 85 90 95
 Leu Glu Glu Asn Leu Arg Tyr Val Ala Arg Glu Leu Asn Ser Ala Phe
 100 105 110
 Pro Ala Leu Ser Trp Gln Pro Pro Glu Ala Thr Tyr Leu Ala Trp Ile
 115 120 125
 Asp Leu Ser Pro Leu Gly Ile Asp Asp Asn Thr Leu Gln Lys Val Leu
 130 135 140
 Ile Glu Gln Gln Lys Val Ala Ile Met Pro Gly Tyr Thr Tyr Gly Ala
 145 150 155 160
 Glu Gly Lys Gly Tyr Val Arg Leu Asn Ala Gly Cys Pro Arg Ser Lys
 165 170 175
 Leu Glu Gln Gly Val Gln Arg Leu Ile Ala Gly Ile Asn Thr Leu Leu
 180 185 190

<210> 5819

<211> 337

<212> PRT

<213> Enterobacter cloacae

<400> 5819

Pro Ala Lys Ser Ala Thr Met Ile Asp Thr Arg Leu Pro Leu Thr Asp
 1 5 10 15
 Ile His Arg His Leu Asp Gly Asn Ile Arg Ala Gln Thr Ile Leu Asp
 20 25 30
 Leu Gly Arg Gln Phe Asn Leu Thr Leu Pro Ala Glu Thr Leu Glu Thr
 35 40 45
 Leu Ile Pro His Val Gln Val Thr Ser Asn Glu Pro Asp Leu Val Ser
 50 55 60
 Phe Leu Ser Lys Leu Asp Trp Gly Val Lys Met Leu Ala Ser Val Asp
 65 70 75 80
 Ala Cys Arg Arg Val Ala Phe Glu Asn Ile Glu Asp Ala Ala Arg Asn
 85 90 95
 Gly Leu His Tyr Val Glu Leu Arg Phe Ser Pro Gly Tyr Met Ala Met
 100 105 110
 Thr His Asn Leu Pro Val Ala Gly Val Val Glu Ala Val Ile Glu Gly
 115 120 125
 Val Arg Glu Gly Cys Lys Thr Phe Asp Val Gln Ala Arg Leu Ile Gly
 130 135 140
 Ile Met Ser Arg Thr Phe Gly Glu Ala Ala Cys Leu Gln Glu Leu Glu
 145 150 155 160
 Ala Leu Leu Ala His Arg Asp Gln Ile Thr Ala Ile Asp Leu Ala Gly
 165 170 175
 Asp Glu Leu Gly Phe Pro Gly Ser Leu Phe Leu Ser His Phe Asn Arg
 180 185 190
 Ala Arg Asp Ala Gly Trp His Ile Thr Val His Ala Gly Glu Ala Ala
 195 200 205

Gly Pro Glu Ser Ile Trp Gln Ala Ile Arg Glu Leu Gly Ala Glu Arg
 210 215 220
 Ile Gly His Gly Val Lys Ala Ile Glu Asp Arg Ala Leu Met Asp Phe
 225 230 235 240
 Leu Ala Glu Gln Arg Ile Gly Ile Glu Ser Cys Leu Thr Ser Asn Ile
 245 250 255
 Gln Thr Ser Thr Val Ala Ser Leu Ala Gln His Pro Leu Lys Thr Phe
 260 265 270
 Leu Glu His Gly Val Leu Ala Ser Leu Asn Thr Asp Asp Pro Ala Val
 275 280 285
 Gln Gly Val Asp Ile Ile His Glu Tyr Asn Ile Ala Ala Pro Gln Ala
 290 295 300
 Gly Leu Ser Arg Glu Gln Ile Arg Gln Ala Gln Ile Asn Gly Leu Glu
 305 310 315 320
 Ile Ala Phe Leu Ile Phe Thr Thr Arg Ala Glu Arg Ser Thr Leu Cys
 325 330 335
 Val

<210> 5820
 <211> 133
 <212> PRT
 <213> Enterobacter cloacae

<220>
 <221> UNSURE
 <222> (126)

<400> 5820
 Arg Asp Gln Arg Ala Gly Asn Ile Pro Leu Ser Cys Met Ala Gly Ala
 1 5 10 15
 His Glu Phe Arg Gln His Gly Phe His Ala Arg Gln Val Gly His Leu
 20 25 30
 Leu Ala His Val Leu Glu Leu Val Phe Gly Gln Ala Ala Gly Leu Leu
 35 40 45
 Ala Val Gly Ala Ile Val Glu Pro Gln Gln Leu Gly Asn Leu Val Gln
 50 55 60
 Thr Glu Pro Gln Pro Leu Cys Arg Phe His Glu Phe His Pro Asn His
 65 70 75 80
 Val Arg Leu Pro Ile Ala Ala Asp Ala Ala Val Arg Leu Val Arg Phe
 85 90 95
 Pro Gln Gln Ala Leu Ala Leu Ile Glu Ala Asp Cys Leu His Val Asp
 100 105 110
 Pro Gly Arg Leu Gly Lys Asn Ala Asn Gly Gln Val Phe Xaa Ile Ile
 115 120 125
 Phe His Ile Ala
 130

<210> 5821
 <211> 99
 <212> PRT
 <213> Enterobacter cloacae

<400> 5821
 Gly Ile Ala Asp Leu Ala Arg Pro Ala Ser Pro Cys Ser Asp Ala Ile
 1 5 10 15
 Asn Gly Gln Glu Thr Phe Pro Phe Arg Ala Trp Gln Ala His Thr Ser
 20 25 30
 Ser Asp Ser Thr Val Ser Met Arg Ala Lys Ser Ala Ile Phe Ser Arg
 35 40 45
 Thr Ser Leu Ser Leu Cys Ser Ala Arg Leu Leu Ala Ser Ser Gln Trp

	50				55				60						
Val	Pro	Ser	Ser	Ser	Arg	Asn	Ser	Ser	Ala	Ile	Ser	Ser	Arg	Leu	Asn
65					70					75					80
Pro	Ser	Arg	Cys	Ala	Asp	Phe	Thr	Asn	Phe	Thr	Arg	Thr	Thr	Ser	Ala
				85					90					95	
Ser	Pro														

<210> 5822
 <211> 113
 <212> PRT
 <213> Enterobacter cloacae

<220>
 <221> UNSURE
 <222> (14)

<220>
 <221> UNSURE
 <222> (72)

<220>
 <221> UNSURE
 <222> (73)

<220>
 <221> UNSURE
 <222> (74)

<220>
 <221> UNSURE
 <222> (75)

<220>
 <221> UNSURE
 <222> (76)

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<220>
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 <222> (80)

<220>
 <221> UNSURE
 <222> (81)

<220>
 <221> UNSURE
 <222> (82)

<220>
 <221>UNSURE
 <222>(83)

<220>
 <221>UNSURE
 <222>(84)

<220>
 <221>UNSURE
 <222>(85)

<400> 5822

Pro	Arg	Pro	Pro	Trp	Gln	Lys	Arg	Gln	Trp	Ser	Gly	Phe	Xaa	Asn	Tyr
1				5					10					15	
Phe	Pro	Tyr	Arg	Leu	Thr	Pro	Tyr	Met	Ser	Thr	Glu	Val	Arg	Leu	Arg
			20					25					30		
Tyr	Pro	Ile	Gln	Ile	Gln	Lys	Gly	Gln	Arg	Met	Ser	Glu	Pro	Thr	Lys
		35					40					45			
Arg	Arg	Gly	Ala	Leu	Phe	Ala	Arg	Gly	Leu	Ala	Gly	Ile	Leu	Ala	Ser
	50					55					60				
Thr	Cys	Cys	Leu	Gly	Ala	Leu	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa
65					70				75						80
Xaa	Xaa	Xaa	Xaa	Xaa	Gln	Arg	Phe	Leu	Pro	Leu	Lys	Pro	Pro	Phe	Ile
				85				90						95	
Gly	Leu	Lys	Met	Phe	Phe	Gly	Ser	Gln	Phe	Leu	Pro	Ala	Val	Lys	Glu
			100					105					110		

<210> 5823
 <211> 221
 <212> PRT
 <213> Enterobacter cloacae

<400> 5823

Lys	Glu	Ala	Ser	Glu	Ala	Glu	Asn	Val	Val	Lys	Lys	Lys	Lys	Lys	Lys
1				5					10					15	
Lys	Lys	Lys	Lys	Lys	Lys	Ile	Ile	Ala	Pro	Pro	Gly	Ser	Arg	Ser	Met
			20					25					30		
Gln	Glu	Cys	Arg	Pro	Ala	Arg	Gly	Arg	Arg	Ala	His	Arg	Ala	Val	Leu
		35					40					45			
Leu	Val	Gln	Thr	Tyr	Val	Gly	Pro	Phe	Glu	Phe	Gly	Leu	Asp	Ser	Val
	50					55					60				
Thr	Leu	Leu	Pro	Tyr	Ser	Cys	Thr	Glu	Ser	Ser	Asp	Met	Glu	Asn	Asn
65					70					75					80
Leu	Glu	Asn	Leu	Thr	Ile	Gly	Val	Phe	Ala	Lys	Ala	Ala	Gly	Val	Asn
			85					90						95	
Val	Glu	Thr	Ile	Arg	Phe	Tyr	Gln	Arg	Lys	Gly	Leu	Leu	Arg	Glu	Pro
			100				105						110		
Asp	Lys	Pro	Tyr	Gly	Ser	Ile	Arg	Arg	Tyr	Gly	Glu	Ala	Asp	Val	Val
		115				120						125			
Arg	Val	Lys	Phe	Val	Lys	Ser	Ala	Gln	Arg	Leu	Gly	Phe	Ser	Leu	Asp
		130				135					140				
Glu	Ile	Ala	Glu	Leu	Leu	Arg	Leu	Asp	Asp	Gly	Thr	His	Cys	Glu	Glu
145				150						155					160
Ala	Ser	Ser	Leu	Ala	Glu	His	Lys	Leu	Lys	Asp	Val	Arg	Glu	Lys	Met
			165						170					175	
Ala	Asp	Leu	Ala	Arg	Met	Glu	Thr	Val	Leu	Ser	Glu	Leu	Val	Cys	Ala
		180					185						190		
Cys	His	Ala	Arg	Lys	Gly	Asn	Val	Ser	Cys	Pro	Leu	Ile	Ala	Ser	Leu

	195		200		205						
Gln	Gly	Glu	Ala	Gly	Leu	Ala	Arg	Ser	Ala	Met	Pro
	210					215					220

<210> 5824

<211> 320

<212> PRT

<213> Enterobacter cloacae

<400> 5824

Arg	Lys	Leu	Ala	Pro	Ala	Leu	Ile	Thr	Gly	Asn	Thr	Ile	Val	Ile	Lys
1				5					10					15	
Pro	Ser	Glu	Phe	Thr	Pro	Asn	Asn	Ala	Ile	Ala	Phe	Ala	Lys	Ile	Val
			20					25					30		
Asp	Glu	Ile	Gly	Leu	Pro	Lys	Gly	Val	Phe	Asn	Leu	Val	Leu	Gly	Arg
		35					40					45			
Gly	Glu	Thr	Val	Gly	Gln	Glu	Leu	Ala	Gly	Asn	Pro	Lys	Val	Ala	Met
	50					55					60				
Val	Ser	Met	Thr	Gly	Ser	Val	Gly	Ala	Gly	Glu	Lys	Ile	Met	Ala	Ala
65					70					75				80	
Ala	Ala	Lys	Asn	Ile	Thr	Lys	Val	Gly	Leu	Glu	Leu	Gly	Gly	Lys	Ala
			85						90					95	
Pro	Ala	Ile	Val	Met	Gly	Asp	Ala	Asp	Leu	Glu	Leu	Ala	Val	Lys	Ala
			100					105						110	
Ile	Val	Asp	Ser	Arg	Val	Ile	Asn	Thr	Gly	Gln	Val	Cys	Asn	Cys	Ala
		115					120					125			
Glu	Arg	Val	Tyr	Val	Gln	Lys	Gly	Ile	Tyr	Asp	Arg	Phe	Val	Asn	Arg
	130					135					140				
Leu	Gly	Glu	Ala	Met	Lys	Ala	Val	Gln	Phe	Gly	Asn	Pro	Ala	Glu	Arg
145					150					155				160	
Thr	Asp	Ile	Ala	Met	Gly	Pro	Leu	Ile	Asn	Ala	Ala	Ala	Leu	Glu	Arg
				165					170					175	
Val	Glu	Gln	Lys	Val	Ala	Arg	Ala	Val	Gln	Glu	Gly	Ala	Lys	Val	Val
		180						185					190		
Leu	Gly	Gly	Lys	Ala	Ala	Glu	Gly	Lys	Gly	Tyr	Phe	Tyr	Pro	Pro	Thr
		195					200					205			
Leu	Leu	Leu	Asp	Val	Arg	Gln	Asp	Met	Ala	Ile	Met	His	Glu	Glu	Thr
	210					215					220				
Phe	Gly	Pro	Val	Leu	Pro	Val	Val	Ala	Phe	Asp	Thr	Leu	Glu	Glu	Ala
225					230					235				240	
Leu	Asn	Met	Ala	Asn	Asp	Ser	Asp	Tyr	Gly	Leu	Thr	Ser	Ser	Val	Tyr
				245					250					255	
Thr	Gln	Asp	Leu	Asn	Val	Ala	Met	Lys	Ala	Ile	Lys	Gly	Leu	Lys	Phe
		260					265						270		
Gly	Glu	Thr	Tyr	Ile	Asn	Arg	Glu	Asn	Phe	Glu	Ala	Met	Gln	Gly	Phe
		275					280					285			
His	Ala	Gly	Trp	Arg	Lys	Ser	Gly	Ile	Gly	Gly	Ala	Asp	Gly	Lys	His
	290					295					300				
Gly	Leu	Asn	Glu	Tyr	Leu	Gln	Thr	Gln	Val	Val	Tyr	Leu	Gln	Ser	
305					310					315				320	

<210> 5825

<211> 148

<212> PRT

<213> Enterobacter cloacae

<400> 5825

Ser	Gly	Ala	Pro	Ser	Met	Arg	Gly	Gly	Ser	His	Phe	Gln	Glu	Arg	Trp
1				5					10					15	
Leu	Cys	Trp	Arg	Asp	Asn	Gly	Tyr	Leu	Ser	Gly	Asn	Asn	Met	Arg	Thr
			20					25					30		

Lys Tyr Thr Gly Leu Gln Ile Ser Ile His Trp Leu Val Phe Leu Leu
 35 40 45
 Val Ile Met Ala Tyr Cys Ala Met Glu Phe Met Gly Trp Phe Pro Arg
 50 55 60
 Ser Asp Arg Pro Leu Ile Asn Met Ile His Val Ser Cys Gly Ile Ser
 65 70 75 80
 Ile Leu Val Leu Met Val Ala Arg Leu Leu Ile Arg Leu Lys Phe Pro
 85 90 95
 Ala Pro Pro Ile Gln Pro Lys Pro Lys Ala Met Ile Thr Gly Leu Ser
 100 105 110
 His Leu Gly His Leu Val Ile Tyr Leu Leu Phe Ile Ala Leu Pro Leu
 115 120 125
 Ile Cys Met Val Met Met Tyr Asn Arg Gly Asn Asp Trp Phe Ala Phe
 130 135 140
 Trp Pro Asp
 145

<210> 5826

<211> 68

<212> PRT

<213> Enterobacter cloacae

<400> 5826

Cys Ile Thr Gly Glu Met Thr Gly Leu Arg Phe Gly Leu Thr Asn Pro
 1 5 10 15
 His Ala Ala Glu Gly Asn Phe Asp Leu Val Asp Thr Leu Lys Thr Trp
 20 25 30
 His Val Asn Leu Ala Ile Leu Gly Asn Ser Leu Ile Gly Leu His Pro
 35 40 45
 Leu Ala Pro Leu Asn Pro Pro Tyr Phe Leu Glu Lys Thr Thr Pro Leu
 50 55 60
 Leu Pro His
 65

<210> 5827

<211> 115

<212> PRT

<213> Enterobacter cloacae

<400> 5827

Ile His Asn Gly Leu His Gly Gln Leu Lys Ile Gly Ile Ala His His
 1 5 10 15
 Asp Gly Arg Gly Phe Thr Ala Gln Leu Gln Pro His Phe Gly Asp Val
 20 25 30
 Phe Arg Ser Arg Ser His Asp Leu Phe Thr Cys Pro Asp Ala Ala Gly
 35 40 45
 His Ala Asp His Arg His Phe Arg Ile Pro Gly Gln Leu Leu Ser Asp
 50 55 60
 Gly Phe Thr Pro Ala Gln His Gln Val Lys Asp Ala Phe Arg Gln Ala
 65 70 75 80
 Asn Leu Ile Asp Asp Phe Gly Lys Arg Asn Gly Val Val Trp Gly Lys
 85 90 95
 Phe Ala Arg Phe Asp Asn Asp Gly Val Ala Gly Asp Gln Arg Gly Ser
 100 105 110
 Lys Leu Thr
 115

<210> 5828

<211> 130

<212> PRT

<213> Enterobacter cloacae

<400> 5828

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Thr Arg Ser Ala Gln Leu His Thr Cys Pro Val Leu Met Thr Arg Glu
1          5          10          15
Ser Thr Met Ala Phe Thr Ala Ser Ser Arg Ser Ala Ser Pro Ile Thr
          20          25          30
Met Ala Gly Ala Leu Pro Pro Ser Ser Ser Pro Thr Leu Val Met Phe
          35          40          45
Phe Ala Ala Ala Ala Met Ile Phe Ser Pro Ala Pro Thr Leu Pro Val
          50          55          60
Met Leu Thr Ile Ala Thr Phe Gly Phe Pro Ala Ser Ser Cys Pro Thr
65          70          75          80
Val Ser Pro Arg Pro Ser Thr Arg Leu Lys Thr Pro Phe Gly Arg Pro
          85          90          95
Ile Ser Ser Thr Ile Leu Ala Asn Ala Met Ala Leu Phe Gly Val Asn
          100          105          110
Ser Leu Gly Leu Ile Thr Met Val Leu Pro Val Ile Ser Ala Gly Ala
          115          120          125
Ser Leu
          130

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<210> 5829

<211> 245

<212> PRT

<213> Enterobacter cloacae

<400> 5829

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Cys Arg Thr Asp Ser Pro Gly His Ser Pro Trp Phe Val Gln Cys Gly
1          5          10          15
Val Val Asn Lys Ser Val Ser Glu Ala Phe Asp Ser Lys Ala Phe Leu
          20          25          30
Lys Thr Val Thr Ser Gln Pro Gly Val Tyr Arg Met Tyr Asp Ala Gly
          35          40          45
Gly Thr Val Ile Tyr Val Gly Lys Ala Lys Asp Leu Lys Lys Arg Leu
          50          55          60
Ser Ser Tyr Phe Arg Ser Asn Leu Ala Ser Arg Lys Thr Glu Ala Leu
65          70          75          80
Val Ala Leu Ile His Asn Ile Asp Val Thr Val Thr His Thr Glu Thr
          85          90          95
Glu Ala Leu Leu Leu Glu His Asn Tyr Ile Lys Leu Tyr Gln Pro Arg
          100          105          110
Tyr Asn Val Leu Leu Arg Asp Asp Lys Ser Tyr Pro Phe Ile Phe Leu
          115          120          125
Ser Gly Asp Thr His Pro Arg Leu Ala Met His Arg Gly Ala Lys His
          130          135          140
Ala Lys Gly Glu Tyr Phe Gly Pro Phe Pro Asn Gly Tyr Ala Val Arg
145          150          155          160
Glu Thr Leu Ala Leu Leu Gln Lys Ile Phe Pro Val Arg Gln Cys Glu
          165          170          175
Asn Ser Val Tyr Arg Asn Arg Ser Arg Pro Cys Leu Gln Tyr Gln Ile
          180          185          190
Gly Arg Cys Leu Gly Pro Cys Val Glu Gly Leu Val Ser Glu Glu Glu
          195          200          205
Tyr Ala Gln Gln Val Glu Tyr Val Arg Leu Phe Leu Ala Gly Lys Asp
210          215          220
Asp Gln Val Leu Thr Gln Leu Ile Thr Arg Met Glu Lys Ala Ser Ala
225          230          235          240
Ala Leu Gly Ile
          245

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<210> 5830

<211> 80
 <212> PRT
 <213> Enterobacter cloacae

<400> 5830

Gln	Gln	Thr	Val	Thr	Val	Ile	Met	Arg	Phe	Asn	Ile	Pro	Thr	Leu	Leu
1				5					10					15	
Thr	Leu	Phe	Arg	Val	Val	Leu	Ile	Pro	Phe	Phe	Val	Leu	Ala	Phe	Tyr
			20					25					30		
Leu	Pro	Val	Val	Trp	Ala	Pro	Phe	Ala	Cys	Ala	Leu	Ile	Phe	Leu	Ile
		35					40					45			
Ala	Ala	Val	Thr	Asp	Trp	Phe	Asp	Gly	Tyr	Leu	Ala	Arg	Arg	Trp	Asn
	50					55					60				
Gln	Ser	Thr	Arg	Phe	Gly	Ala	Phe	Val	Leu	Pro	His	Arg	Pro	Gly	
65					70					75					80

<210> 5831

<211> 401

<212> PRT

<213> Enterobacter cloacae

<400> 5831

Leu	Leu	Val	Trp	Lys	Lys	Pro	Ala	Arg	Arg	Trp	Glu	Phe	Glu	Glu	Ala
1				5					10					15	
Ala	Arg	Ile	Arg	Asp	Gln	Ile	Gln	Ala	Val	Arg	Arg	Val	Thr	Glu	Lys
			20					25					30		
Gln	Phe	Val	Ser	Asn	Thr	Gly	Asp	Asp	Leu	Asp	Val	Ile	Gly	Val	Ala
		35					40					45			
Phe	Asp	Ala	Gly	Leu	Ala	Cys	Val	His	Val	Leu	Phe	Ile	Arg	Gln	Gly
	50					55					60				
Lys	Val	Leu	Gly	Ser	Arg	Ser	Tyr	Phe	Pro	Lys	Val	Pro	Gly	Gly	Thr
65					70					75					80
Glu	Leu	Gly	Glu	Val	Val	Glu	Thr	Phe	Val	Gly	Gln	Phe	Tyr	Leu	Gln
				85					90					95	
Gly	Ser	Gln	Met	Arg	Thr	Leu	Pro	Ser	Glu	Ile	Leu	Leu	Asp	Phe	Thr
			100					105					110		
Leu	Asp	Asp	Lys	Thr	Leu	Leu	Ala	Asp	Ser	Leu	Ser	Glu	Leu	Ala	Gly
	115						120					125			
Arg	Arg	Val	Asn	Val	Gln	Thr	Lys	Pro	Arg	Gly	Asp	Arg	Ala	Arg	Tyr
	130					135					140				
Leu	Lys	Leu	Ala	Arg	Thr	Asn	Ala	Ala	Thr	Ala	Leu	Thr	Thr	Lys	Leu
145					150					155					160
Ser	Gln	Gln	Ser	Thr	Val	Ser	Gln	Arg	Leu	Thr	Ala	Leu	Ala	Thr	Leu
			165						170					175	
Leu	Lys	Leu	Pro	Glu	Val	Lys	Arg	Met	Glu	Cys	Phe	Asp	Ile	Ser	His
			180					185					190		
Thr	Met	Gly	Glu	Gln	Thr	Val	Ala	Ser	Cys	Val	Val	Phe	Asp	Ala	Asn
	195						200					205			
Gly	Pro	Leu	Arg	Ala	Glu	Tyr	Arg	Arg	Tyr	Asn	Ile	Thr	Gly	Ile	Thr
	210					215					220				
Pro	Gly	Asp	Asp	Tyr	Ala	Ala	Met	Asn	Gln	Val	Leu	Arg	Arg	Arg	Tyr
225					230					235					240
Gly	Lys	Ala	Ile	Glu	Glu	Ser	Lys	Ile	Pro	Asp	Val	Ile	Leu	Ile	Asp
				245					250					255	
Gly	Gly	Lys	Gly	Gln	Leu	Gly	Gln	Ala	Lys	Ala	Val	Phe	Glu	Ser	Leu
			260					265					270		
Asp	Val	Glu	Trp	Asp	Lys	Asn	His	Pro	Leu	Leu	Leu	Gly	Val	Ala	Lys
	275						280					285			
Gly	Ala	Asp	Arg	Lys	Ala	Gly	Leu	Glu	Thr	Leu	Phe	Phe	Glu	Pro	Glu
	290					295					300				
Gly	Glu	Gly	Phe	Ser	Leu	Pro	Pro	Asp	Ser	Pro	Ala	Leu	His	Val	Ile

305		310		315		320
Gln His Ile Arg Asp	Glu Ser His Asp His	Ala Ile Ser Gly His	Arg			
	325		330			
Lys Lys Arg Ala Lys	Val Lys Asn Thr Ser	Thr Leu Glu Thr	Ile Glu			
	340		350			
Gly Val Gly Pro Lys	Arg Arg Gln Met Leu	Leu Lys Tyr Met	Gly Gly			
	355		365			
Leu Gln Gly Leu Leu	Asn Ala Ser Met Glu	Glu Ile Ala Lys	Val Pro			
	370		380			
Gly Ile Ser Gln Gly	Leu Ala Glu Lys Ile	Tyr Tyr Ser Leu	Lys His			
385	390	395	400			

<210> 5832
 <211> 174
 <212> PRT
 <213> Enterobacter cloacae

<400> 5832
Gln Arg Leu Cys Tyr Gln Arg Glu Thr Val Arg Arg Arg Gln Arg Arg
1 5 10 15
Gly Gly Arg Pro Asp Ser Val Arg Leu Asn Gly Asp Cys Ala Pro Gly
20 25 30
Trp Leu Trp Gln Gln Arg Asp Arg Thr Pro Val Leu Ile His Phe Cys
35 40 45
Thr Lys Lys Gln Gly Met Arg Pro Val Phe Phe Arg Glu Asp Leu Met
50 55 60
Ser Thr Phe Ile Leu Leu Ala Ala Leu Ala Ser Gln Ile Thr Phe Ser
65 70 75 80
Thr Ser Gln Gln Ala Asn Met Thr Thr Ile Ile Pro Gln Val Thr Leu
85 90 95
Ala Asp Ala Cys Glu Cys Gln Val Glu Val Leu Ser Val Arg Gln Gly
100 105 110
Gln Gly Gly Gln Ser Thr Ser Arg Gln Lys Asn Thr Leu Phe Ile Pro
115 120 125
Ala Asn Gln Pro Ile Asp Leu Thr Arg Ile Ser Leu Asn Ile Arg Ser
130 135 140
Gly Asp Ala Val Lys Ile Ile Val Thr Val Ser Asp Gly Lys Ser Leu
145 150 155 160
His Leu Ser Gln Gln Trp Asn Ala Pro Val Ser Ala Leu
165 170

<210> 5833
 <211> 187
 <212> PRT
 <213> Enterobacter cloacae

<400> 5833
Thr Cys Phe Gly Arg His Thr Leu Phe Arg Asn Ala Ala Leu Thr Lys
1 5 10 15
Arg Ile Ala Leu Thr Glu Gln Glu Ile Leu Phe Tyr Ser Gln Val Gln
20 25 30
Gly Asp Ser Met Lys Asn Lys Thr Leu Phe Met Met Phe Thr Leu Leu
35 40 45
Gly Ala Pro Gly Phe Val Ile Ala Gly Asp Ser Asp Leu Ala Ser Ser
50 55 60
Glu Tyr Asn Phe Ala Ile Asn Glu Leu Ser Lys Ala Ser Tyr Asn Gln
65 70 75 80
Ala Ala Ile Ile Gly Gln Gln Gly Ser Gly Asn Asn Ser Asp Val Arg
85 90 95

Gln Asp Gly Ser Lys Leu Leu Ser Val Ile Ser Gln Glu Gly Gly Asn
 100 105 110
 Asn Arg Ala Asn Val Asp Gln Ser Gly Thr Tyr Asn Leu Ala Tyr Ile
 115 120 125
 Asp Gln Thr Gly Asn Gly Asn Asp Ala Ser Ile Lys Gln Gly Ala Phe
 130 135 140
 Gly Asn Thr Ala Met Ile Ile Gln Lys Gly Ser Gly Asn Arg Ala Asn
 145 150 155 160
 Ile Thr Gln Tyr Gly Thr Gln Lys Thr Ala Val Val Val Gln Arg Gln
 165 170 175
 Ser Gln Met Ala Ile Arg Val Ile Gln Arg
 180 185

<210> 5834

<211> 159

<212> PRT

<213> Enterobacter cloacae

<400> 5834

Ser Ile Arg Trp Gly Phe Thr Met Lys Leu Phe Lys Val Ala Val Ile
 1 5 10 15
 Ala Ala Ile Val Val Ser Gly Ser Ala Phe Ala Gly Ala Val Pro Gln
 20 25 30
 Phe Gly Gly Gly His Gly Gly Gly Trp Gly Gly Gly Asn Asn Gly Pro
 35 40 45
 Asp Ser Thr Leu Ser Ile Tyr Gln Tyr Gly Gly Gly Asn Ser Ala Leu
 50 55 60
 Ala Leu Gln Thr Asp Ala Arg Asp Ser Glu Leu Thr Ile Thr Gln His
 65 70 75 80
 Gly Gly Gly Asn Gly Ala Asp Val Gly Gln Gly Ser Asp Asp Ser Ser
 85 90 95
 Ile Asp Leu Leu Gln Lys Gly Phe Gly Asn Ser Ala Thr Ile Asp Gln
 100 105 110
 Trp Asn Ser Lys Asp Ser Val Ile Asn Val Lys Gln Phe Gly Gly Gly
 115 120 125
 Asn Gly Ala Ala Val Asp Gln Thr Ala Ser Gly Ser Thr Val Thr Val
 130 135 140
 His Gln Val Gly Phe Gly Asn Asn Ala Thr Ala His Gln Tyr
 145 150 155

<210> 5835

<211> 297

<212> PRT

<213> Enterobacter cloacae

<400> 5835

Lys Asn Ile Met Met Arg Ile Ala Leu Phe Leu Leu Thr Asn Leu Ala
 1 5 10 15
 Val Met Val Val Phe Gly Leu Val Leu Ser Leu Thr Gly Ile Gln Ser
 20 25 30
 Ser Ser Val Gln Gly Leu Leu Ile Met Ala Leu Leu Phe Gly Phe Gly
 35 40 45
 Gly Ser Phe Ile Ser Leu Leu Met Ser Lys Trp Met Ala Leu Lys Ser
 50 55 60
 Val Gly Gly Glu Val Ile Glu Gln Pro Arg Asn Asp Met Glu Gln Trp
 65 70 75 80
 Leu Met Ser Thr Val Ala Gln Gln Ser Lys Gln Ala Gly Ile Ala Met
 85 90 95
 Pro Gln Val Ala Ile Tyr His Ala Pro Asp Ile Asn Ala Phe Ala Thr
 100 105 110
 Gly Ala Arg Arg Asp Ala Ser Leu Val Ala Val Ser Thr Gly Leu Leu

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<210> 5836
<211> 536
<212> PRT
<213> Enterobacter cloacae
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Leu 1	Asp	Arg	Ser	Lys 5	Ala	Pro	Trp	Pro	Lys 10	Asp	Glu	Ala	Glu	Leu 15	Asn
Val	Leu	Trp	Asp 20	Gly	Lys	Val	Lys	Tyr 25	Asp	Glu	Leu	Ser	Leu 30	Lys	Leu
Thr	Gly 35	Lys	Asp	Glu	Lys	Glu	Ile 40	Arg	Glu	Thr	Leu	Asn 45	Arg	Arg	Tyr
Lys	Phe 50	Asp	Ile	Arg	Arg	Leu 55	Ala	Gln	Thr	Asn	Ser 60	Glu	Asp	Val	Phe
Ser 65	Leu	Ala	Met	Thr	Ala 70	Phe	Ala	His	Glu	Ile 75	Asp	Pro	His	Thr	Asn 80
Tyr	Leu	Ser	Pro	Arg 85	Asn	Thr	Glu	Gln	Phe 90	Asn	Thr	Glu	Met	Ser 95	Leu
Ser	Leu	Glu	Gly 100	Ile	Gly	Ala	Val	Leu 105	Gln	Met	Asp	Asp	Asp 110	Tyr	Thr
Val	Ile 115	Asn	Ser	Met	Val	Ala	Gly 120	Gly	Pro	Ala	Ser	Lys 125	Ser	Lys	Ala
Ile	Ser 130	Val	Gly	Asp	Arg	Ile 135	Val	Gly	Val	Gly	Gln 140	Thr	Gly	Lys	Ser
Met 145	Val	Asp	Val	Ile 150	Gly	Trp	Arg	Leu	Asp	Asp 155	Val	Val	Ala	Leu	Ile 160
Lys	Gly	Pro	Lys 165	Gly	Ser	Lys	Val	Arg	Leu 170	Glu	Ile	Leu	Pro	Ala	Gly
Lys	Gly	Thr	Lys 180	Thr	Arg	Ile	Val	Thr 185	Leu	Thr	Arg	Glu	Arg 190	Ile	Arg
Leu	Glu 195	Asp	Arg	Ala	Val	Lys	Met 200	Ser	Val	Lys	Thr	Val 205	Gly	Lys	Glu
Lys	Val 210	Gly	Val	Leu	Asp	Ile 215	Pro	Gly	Phe	Tyr	Val	Gly	Leu	Thr	Asp
Asp 225	Val	Lys	Val	Gln	Leu 230	Gln	Lys	Leu	Glu	Lys 235	Gln	Asn	Val	Ser	Ser 240
Val	Ile	Ile	Asp	Leu	Arg	Ser	Asn	Gly	Gly	Gly	Ala	Leu	Thr	Glu	Ala

				245					250					255			
Val	Ser	Leu	Ser	Gly	Leu	Phe	Ile	Pro	Ser	Gly	Pro	Val	Val	Gln	Val		
			260					265						270			
Arg	Asp	Asn	Asn	Gly	Lys	Val	Arg	Glu	Asp	Ala	Asp	Thr	Asp	Gly	Val		
		275					280					285					
Val	Tyr	Tyr	Lys	Gly	Pro	Leu	Val	Val	Leu	Val	Asp	Arg	Phe	Ser	Ala		
	290					295					300						
Ser	Ala	Ser	Glu	Ile	Phe	Ala	Ala	Ala	Met	Gln	Asp	Tyr	Gly	Arg	Ala		
305				310						315					320		
Leu	Ile	Val	Gly	Glu	Pro	Thr	Phe	Gly	Lys	Gly	Thr	Val	Gln	Gln	Tyr		
			325					330						335			
Arg	Ser	Leu	Asn	Arg	Ile	Tyr	Asp	Gln	Met	Leu	Arg	Pro	Glu	Trp	Pro		
			340					345					350				
Ala	Leu	Gly	Ser	Val	Gln	Tyr	Thr	Ile	Gln	Lys	Phe	Tyr	Arg	Val	Asn		
		355					360					365					
Gly	Gly	Ser	Thr	Gln	Arg	Lys	Gly	Val	Thr	Pro	Asp	Ile	Met	Met	Pro		
	370					375					380						
Thr	Gly	Thr	Glu	Glu	Thr	Glu	Thr	Gly	Glu	Lys	Phe	Glu	Asp	Asn	Ala		
385					390					395					400		
Leu	Pro	Trp	Asp	Ser	Ile	Asp	Ala	Ala	Thr	Phe	Val	Lys	Ser	Gly	Asp		
			405					410						415			
Met	Lys	Gln	Phe	Gly	Pro	Glu	Leu	Leu	Lys	Asn	His	Asn	Asp	Arg	Ile		
			420					425					430				
Gly	Lys	Asp	Pro	Glu	Phe	Gln	Tyr	Ile	Met	Lys	Asp	Ile	Ala	Arg	Phe		
		435				440						445					
Asn	Ala	Leu	Lys	Ala	Lys	Arg	Asn	Ile	Val	Ser	Leu	Asn	Tyr	Ala	Gln		
	450					455					460						
Arg	Glu	Lys	Glu	Asn	Asn	Glu	Asp	Asp	Ala	Thr	Arg	Leu	Ala	Arg	Ile		
465				470						475					480		
Asn	Asp	Arg	Phe	Lys	Arg	Glu	Gly	Lys	Pro	Leu	Leu	Lys	Lys	Leu	Asp		
				485				490						495			
Asp	Leu	Pro	Lys	Asp	Tyr	Gln	Glu	Pro	Asp	Pro	Tyr	Leu	Asp	Glu	Thr		
			500					505					510				
Val	His	Ile	Ala	Leu	Asp	Leu	Pro	Lys	Leu	Glu	Lys	Asn	Lys	Pro	Ala		
		515					520					525					
Val	Gln	Pro	Ala	Pro	Thr	Lys											
	530					535											

<210> 5837

<211> 309

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (309)

<400> 5837

Leu	Thr	Phe	Ala	Asp	Ser	Glu	Phe	Ser	Thr	Lys	Arg	Arg	Gln	Thr	Arg		
1				5					10					15			
Lys	Glu	Ile	Phe	Leu	Ser	Arg	Met	Glu	Gln	Ile	Leu	Pro	Trp	Gln	Asn		
			20					25					30				
Met	Thr	Ala	Val	Ile	Glu	Pro	Phe	Tyr	Pro	Lys	Ala	Gly	Asn	Gly	Arg		
		35					40					45					
Arg	Pro	Tyr	Pro	Leu	Glu	Thr	Met	Leu	Arg	Ile	His	Cys	Met	Gln	His		
	50					55					60						
Trp	Tyr	Asn	Leu	Ser	Asp	Gly	Ala	Met	Glu	Asp	Ala	Leu	Tyr	Glu	Ile		
65				70					75					80			
Ala	Ser	Met	Arg	Leu	Phe	Ala	Arg	Leu	Ser	Leu	Asp	Ser	Ala	Leu	Pro		
			85					90					95				
Asp	Arg	Thr	Thr	Ile	Met	Asn	Phe	Arg	His	Leu	Leu	Glu	Gln	His	Gln		

```
<210> 5838
<211> 93
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 5839
<211> 100
<212> PRT
<213> Enterobacter cloacae
```

<400> 5839															
Ala	Val	Gly	Gln	Ala	Thr	Leu	Gly	Ile	Asp	Thr	Asn	Val	Gly	Leu	His
1				5					10					15	
Ala	Lys	Val	Pro	Leu	Ile	Ala	Phe	Leu	Gly	Leu	Met	His	Leu	Arg	Ile
			20					25					30		
Ala	Leu	Leu	Leu	Phe	Val	Leu	Ala	Arg	Ala	Gly	Cys	Leu	Asn	Asp	Gly
		35					40					45			
Gly	Ile	His	Gln	Ser	Ala	Leu	Gly	His	His	Asp	Ala	Cys	Phe	Gly	Gln
	50					55					60				

Pro Ala Ile Asp Gly Leu Glu Gln Leu Thr Gly Gln Leu Met Leu Leu
 65 70 75 80
 Glu Gln Val Ala Glu Ile His Asp Gly Gly Ala Ile Arg Gln Gly Ala
 85 90 95
 Ile Gln Gly
 100

<210> 5840

<211> 116

<212> PRT

<213> Enterobacter cloacae

<400> 5840

Ser Gly Lys Gln Ala His Gly Gly Asp Phe Val Gln Gly Ile Phe His
 1 5 10 15
 Gly Thr Val Ala Gln Val Val Pro Met Leu His Ala Val Asn Thr Gln
 20 25 30
 His Gly Leu Gln Arg Ile Gly Pro Ser Ala Ile Ala Arg Leu Gly Ile
 35 40 45
 Lys Arg Leu Asp Asp Ser Gly His Ile Leu Pro Trp Gln Asn Leu Leu
 50 55 60
 His Ala Gly Glu Glu Asn Leu Phe Ser Gly Leu Thr Ala Leu Ser Ala
 65 70 75 80
 Glu Phe Thr Ile Gly Glu Gly Glu Leu Met Ala His Asp Val Pro Leu
 85 90 95
 Gly Cys Ala Pro Asp Glu Tyr Asp Asp Leu Ile Ser Gly Thr Cys Ser
 100 105 110
 His Leu Pro
 115

<210> 5841

<211> 520

<212> PRT

<213> Enterobacter cloacae

<400> 5841

Val Leu Pro Ala Ala Cys Gly Glu Asn Asp Ser Arg Arg Ala Glu Met
 1 5 10 15
 Leu Gln Gln Ala Asn Ala Leu Asp Glu Arg Glu Ser Phe Ser Ser Leu
 20 25 30
 Arg Arg Leu Ala Trp Gln Asn Gly His Tyr Phe Thr Leu Arg Thr Thr
 35 40 45
 Phe Asn Gln Pro Gly His Leu Ala Thr Val Val Ala Phe Asp Leu Pro
 50 55 60
 Ile Asn Asp Leu Ile Pro Pro Asp Met Pro Leu Asp Ser Phe Arg Leu
 65 70 75 80
 Glu Pro Asp Asn Ser Thr Gln Asn Met Arg Ser Pro Ser Asp Lys Glu
 85 90 95
 Gly Ala Asp Ser Val Ala Ile Ser Phe Asn Gly Ser Lys Ile Glu Ile
 100 105 110
 Ala Ser Ser Leu Asn Ser Thr Gly Met Arg Leu Val Trp Gln Val Pro
 115 120 125
 Phe Gly Thr Leu Met Leu Asp Thr Leu Gln Asn Ile Leu Leu Pro Leu
 130 135 140
 Leu Leu Asn Ile Gly Leu Leu Ala Leu Ala Leu Phe Gly Tyr Ser Thr
 145 150 155 160
 Phe Arg Phe Gln Ser Gly Arg Gln Ser Asp Ser Thr Ser Val Ser Ala
 165 170 175
 Gly Thr Ser Asn Glu Leu Arg Ile Leu Arg Ala Leu Asn Glu Glu Ile
 180 185 190
 Ile Ser Val Leu Pro Leu Gly Val Leu Val His Asp Gln Glu Ala Asn

```
<210> 5842
<211> 138
<212> PRT
<213> Enterobacter cloacae
```

Ser	Val	Arg	Ser	Asn	Ser	Met	Arg	His	Tyr	Glu	Ile	Val	Phe	Met	Val
1				5					10					15	
His	Pro	Asp	Gln	Ser	Glu	Gln	Val	Pro	Gly	Met	Ile	Glu	Arg	Tyr	Ser
			20					25					30		
Ala	Ala	Ile	Thr	Gly	Ala	Glu	Gly	Thr	Ile	His	Arg	Leu	Glu	Asp	Trp
			35				40					45			
Gly	Arg	Arg	Gln	Leu	Ala	Tyr	Pro	Ile	Asn	Lys	Leu	His	Lys	Ala	His
	50					55					60				
Tyr	Val	Leu	Met	Asn	Val	Glu	Ala	Pro	Gln	Glu	Val	Ile	Asp	Glu	Leu
65				70						75				80	
Glu	Thr	Thr	Phe	Arg	Phe	Asn	Asp	Ala	Val	Ile	Arg	Ser	Met	Val	Met
				85					90					95	
Arg	Thr	Lys	His	Ala	Val	Thr	Glu	Ala	Ser	Pro	Met	Val	Lys	Ala	Lys

100 105 110
 Asp Glu Arg Arg Glu Arg Arg Asp Asp Phe Ala Asn Glu Thr Ala Asp
 115 120 125
 Asp Ser Asp Ala Gly Asp Ser Glu Glu
 130 135

<210> 5843

<211> 72

<212> PRT

<213> Enterobacter cloacae

<400> 5843

Phe Leu Met Thr Asn Arg Leu Val Leu Ser Gly Thr Val Cys Arg Thr
 1 5 10 15
 Pro Leu Arg Lys Val Ser Pro Ser Gly Ile Pro His Cys Gln Phe Val
 20 25 30
 Leu Glu His Arg Ser Val Gln Glu Glu Ala Gly Phe His Arg Gln Ala
 35 40 45
 Trp Cys Gln Met Pro Val Ile Ile Ser Gly His Glu Asn Gln Ala Ile
 50 55 60
 Thr His Ser Phe Asn Gly Arg
 65 70

<210> 5844

<211> 133

<212> PRT

<213> Enterobacter cloacae

<400> 5844

Thr Thr Ser Ser Glu Met Val Thr His Pro Asn Pro Gly Ser Asp Tyr
 1 5 10 15
 Thr Leu Ile Arg Asn Pro Glu Gln Arg Arg Ala Phe Pro Arg Ile
 20 25 30
 Thr Ala Arg Ser Arg Gly Ala His Ile Met Lys Arg Ile Ala Ile Ala
 35 40 45
 Ile Leu Ala Ala Leu Leu Leu Ser Ala Asn Ala Met Ala Ala Ile Arg
 50 55 60
 Ile Asp Ser Gln Gln Ala Arg Asn Met Asp Asp Val Gln Ser Leu Gly
 65 70 75 80
 Val Ile Tyr Ile Asn His Asn Phe Ala Thr Glu Ser Glu Ala Asp Gln
 85 90 95
 Ala Leu Asn Glu Glu Thr Asp Ala His Gly Ala Lys Tyr Tyr His Val
 100 105 110
 Met Leu Thr Arg Glu Pro Gly Ser Asn Gly Asn Met His Ala Ser Ala
 115 120 125
 Asp Ile Tyr Gln
 130

<210> 5845

<211> 188

<212> PRT

<213> Enterobacter cloacae

<400> 5845

Asn Arg Ala Phe Ala Glu Cys Lys His Asp Gly Arg Phe Ala Asp Asp
 1 5 10 15
 Ala Gly Glu Lys Met Ile Pro Val Leu Ala Ile Ser Ala Trp Ser Gly
 20 25 30
 Thr Gly Lys Thr Ser Leu Leu Lys Lys Leu Ile Pro Ala Leu Cys Ala
 35 40 45
 Lys Gly Ile Arg Pro Gly Leu Ile Lys His Thr His His Asn Met Asp

50		55		60
Val Asp Lys Pro Gly	Lys Asp Ser Tyr Glu	Leu Arg Lys Ala Gly	Ala	
65	70	75	80	
Ala Gln Thr Met Val	Ala Ser Asn Gln Arg	Trp Ala Leu Met Thr	Glu	
	85	90	95	
Thr Pro Asp Glu Ala	Pro Leu Asp Leu	Ala Tyr Leu Val Ser	Arg Met	
	100	105	110	
Asp His Ser Thr Leu	Asp Leu Val Leu	Val Glu Gly Phe	Lys His Glu	
	115	120	125	
Ala Val Ala Lys Ile	Leu Leu Phe Arg	Ser Asp Ala Gly	His Asp Val	
	130	135	140	
Ser Glu Leu Thr Leu	Asp Glu His Val	Ile Ala Val Ala	Ser Asp Val	
	145	150	155	160
Ala Leu Thr Leu Lys	Val Pro Val Leu	Asp Leu Asn Asn	Val Glu Gly	
	165	170	175	
Ile Ala Ala Phe Ile	Ser Ala Trp Cys	Ala Val		
	180	185		

<210> 5846
 <211> 243
 <212> PRT
 <213> Enterobacter cloacae

<400> 5846
Phe Ile Arg Lys Gly Gln Gly Val Thr Pro Thr Ala Tyr Ala Thr Ile
1 5 10 15
Leu His Glu Tyr Ile Ser Gln Gly Leu Glu Ser Ile Leu Gly Ala Leu
20 25 30
Asp Leu Thr Gly Ser Tyr Asp Lys Gln Arg Thr Ile Thr Ile Gly Thr
35 40 45
Ser Pro Ser Val Gly Val Leu Val Met Pro Ala Ile Tyr Gln Ala Val
50 55 60
Lys Gln His Ala Pro Gln Leu Leu Ile Arg Asn Val Pro Val Asn Asp
65 70 75 80
Pro Glu Thr Gln Leu Ala Gln Phe Gln Thr Asp Leu Ile Ile Asp Ser
85 90 95
Asn Ser Phe Ala Ala Arg Ala Leu Gly His Asn Val Leu Tyr Thr Asp
100 105 110
Ser Leu Ala Leu Val Cys Arg Gln Asn His Pro Val Leu Ser Ala Pro
115 120 125
Leu Thr Pro Glu Asn Leu Arg His Tyr Glu His Ala Thr Phe Met Ser
130 135 140
Glu Gly Gln Gly Pro Asp Pro Leu Arg Gln Arg Ile Asp Glu Leu Phe
145 150 155 160
Pro Asp Arg Leu Ile Ser Phe Ser Ser Tyr Asn Met Phe Thr Leu Ala
165 170 175
Ala Leu Ile Gly Ser Ser Asp Leu Leu Cys Ile Met Pro Val Arg Leu
180 185 190
Phe Ala Leu Leu Gln Lys Cys Trp Pro Leu Glu Ser Ile Pro Leu Ser
195 200 205
Gln Leu Thr Thr Glu Ser Val Glu Ile Ser Leu His Tyr Asn Lys Leu
210 215 220
Ser Leu Arg Asp Pro Val Leu Glu Asn Val Ile Asn Val Ile Arg Gln
225 230 235 240
Ala Phe

<210> 5847
 <211> 337
 <212> PRT
 <213> Enterobacter cloacae

<400> 5847

```

Ile Glu Thr Leu Ser Phe Asp Ile Arg Asn Trp Asn Thr His Ala Met
1      5      10      15
Ser Lys Pro Ile Val Met Glu Arg Gly Val Lys Tyr Arg Asp Ala Asp
20      25      30
Lys Met Ala Leu Ile Pro Val Lys Asn Val Ala Thr Glu Arg Glu Ala
35      40      45
Leu Leu Arg Lys Pro Glu Trp Met Lys Ile Lys Leu Pro Ala Asp Ser
50      55      60
Ser Arg Ile Gln Gly Ile Lys Ala Ala Met Arg Lys Asn Gly Leu His
65      70      75      80
Ser Val Cys Glu Glu Ala Ser Cys Pro Asn Leu Ala Glu Cys Phe Asn
85      90      95
His Gly Thr Ala Thr Phe Met Ile Leu Gly Ala Ile Cys Thr Arg Arg
100     105     110
Cys Pro Phe Cys Asp Val Ala His Gly Arg Pro Val Ala Pro Asp Ala
115     120     125
Asn Glu Pro Gln Lys Leu Ala Gln Thr Ile Ala Asp Met Ala Leu Arg
130     135     140
Tyr Val Val Ile Thr Ser Val Asp Arg Asp Asp Leu Arg Asp Gly Gly
145     150     155     160
Ala Gln His Phe Ala Asp Cys Ile Thr Ala Ile Arg Glu Lys Ser Pro
165     170     175
Asn Ile Lys Ile Glu Thr Leu Val Pro Asp Phe Arg Gly Arg Met Asp
180     185     190
Arg Ala Leu Asp Ile Leu Thr Ala Thr Pro Pro Asp Val Phe Asn His
195     200     205
Asn Leu Glu Asn Val Pro Arg Ile Tyr Arg Gln Val Arg Pro Gly Ala
210     215     220
Asp Tyr Asn Trp Ser Leu Lys Leu Leu Glu Arg Phe Lys Glu Ala His
225     230     235     240
Pro His Ile Pro Thr Lys Ser Gly Leu Met Val Gly Leu Gly Glu Thr
245     250     255
Asn Ala Glu Ile Ile Glu Val Met Arg Asp Leu Arg Arg His Gly Val
260     265     270
Thr Met Leu Thr Leu Gly Gln Tyr Leu Gln Pro Ser Arg His His Leu
275     280     285
Pro Val Gln Arg Tyr Val Ser Pro Asp Glu Phe Asp Glu Met Lys Ala
290     295     300
Glu Ala Met Ala Met Gly Phe Thr His Ala Ala Cys Gly Pro Phe Val
305     310     315     320
Arg Ser Ser Tyr His Ala Asp Met Gln Ala Lys Gly Glu Glu Val Lys
325     330     335

```

<210> 5848

<211> 187

<212> PRT

<213> Enterobacter cloacae

<400> 5848

```

Arg Cys Ile Cys Leu Val Lys Ile Phe Phe Ser Ala Ser Glu Lys Asn
1      5      10      15
Met Ser Asp Tyr Ile Pro Lys Lys Arg Gly Leu Leu Ile Leu Asp Trp
20      25      30
Tyr Val Pro Leu Asn Ile Leu Leu Ile Leu Val Met Cys Val Phe
35      40      45
Phe Thr Arg Tyr Thr Phe Gly Tyr Gly Leu Leu Asn Gly Cys Leu Pro
50      55      60

```

Ala	Asp	Phe	Tyr	Met	Ile	Asp	His	Ser	Asp	Lys	Ser	Ile	Lys	Thr	Gly
65					70					75					80
Glu	Leu	Ile	Pro	Phe	Asn	Met	Pro	Lys	Ser	Val	Arg	Phe	Ile	Pro	Gln
				85					90					95	
Asn	Glu	Arg	Val	Ile	Lys	Ile	Val	Ala	Gly	Val	Gly	Gly	Asp	Lys	Leu
			100					105					110		
Lys	Val	Thr	Met	Asp	Gly	Val	Tyr	Asn	Gly	Asp	Lys	Phe	Phe	Glu	Thr
		115					120					125			
Asn	Ala	Arg	Arg	Ile	Ser	Lys	Lys	Tyr	Asn	Ile	Pro	Ser	Ile	Leu	Ile
	130					135					140				
Glu	Lys	Glu	Leu	Ile	Ile	Pro	Glu	Gly	Glu	Val	Phe	Leu	Ile	Gly	Gln
145					150					155					160
Thr	Asp	His	Ser	Trp	Asp	Ser	Arg	Phe	Trp	Gly	Thr	Val	Lys	Leu	Asn
				165					170					175	
Ser	Val	Ile	Gly	Lys	Thr	Tyr	Ala	Ile	Phe						
			180					185							

<210> 5849

<211> 271

<212> PRT

<213> Enterobacter cloacae

<400> 5849

Cys	Ala	Val	Leu	Ser	Asn	Thr	Asn	Ala	Ser	Thr	Glu	Tyr	Gln	His	Asp
1				5					10					15	
Ala	Asp	Leu	Ile	Ala	Gln	Gln	Ala	Lys	Gly	Leu	Gly	Ala	Gln	Ala	Lys
			20					25					30		
Gly	Ala	Gln	Gln	Pro	Asp	Gly	Ala	Leu	Ser	Leu	Asp	Ala	Thr	Leu	Lys
		35				40					45				
Ser	Pro	Asp	Val	Gln	Lys	Tyr	Ile	Ala	Gln	Ala	Glu	Ala	Leu	Gln	Lys
	50					55					60				
Asn	Gln	Asp	Leu	Ser	Lys	Gln	Ile	Asn	Arg	Gly	Tyr	Val	Pro	Gly	Met
65					70					75					80
Asn	Ala	Asp	Ser	Val	Gln	Ala	Val	Ile	Asp	His	Thr	Gln	Ala	Ile	Arg
			85						90					95	
Ala	Gln	Ser	Asn	Asn	Ser	Glu	Ala	Val	Asn	Asp	Ile	Ile	Arg	Arg	Arg
			100					105					110		
Asp	Glu	Ile	Gln	Glu	Asn	Ala	Ser	Leu	Asn	Glu	Ala	Ala	Leu	Lys	Ala
		115					120					125			
Val	Glu	Asn	Lys	Pro	Glu	Val	Met	Arg	Gly	Gln	Ala	Lys	Asn	Ile	Glu
						135					140				
Lys	Leu	Phe	Gly	Ser	Ser	Gly	Ile	Thr	Ala	Ala	Asp	Phe	Glu	Arg	Lys
145					150					155					160
Met	Asp	Ser	Thr	Arg	Glu	Glu	Ala	Leu	Ser	Thr	Glu	Asn	Gly	Ile	Thr
				165					170					175	
Ile	Phe	Ala	Ser	Phe	Ser	Leu	Pro	Asp	Tyr	Val	Leu	Glu	Asp	Leu	Leu
			180					185					190		
Arg	Thr	Ala	Ser	Glu	His	Lys	Ala	Arg	Val	Val	Phe	Asn	Gly	Leu	Lys
		195					200					205			
Lys	Gly	Thr	Thr	Arg	Leu	Pro	Glu	Thr	Gln	Ala	Ala	Ile	Asn	Gln	Met
		210				215					220				
Ile	Val	Lys	Gly	Lys	Phe	Glu	Ser	Pro	Leu	Ile	Thr	Ile	Asp	Pro	Asp
225					230					235					240
Ser	Phe	Ser	Gln	Tyr	Gln	Val	Thr	Gln	Val	Pro	Thr	Ile	Ile	Ser	Arg
				245					250					255	
Glu	Gln	Ala	Arg	Phe	Ala	Lys	Met	Gly	Lys	Leu	Leu	Gln	Arg		
			260					265					270		

<210> 5850

<211> 247

<212> PRT

<213> Enterobacter cloacae

<400> 5850

```

Met Asn Leu Arg Thr Lys Gly Phe Leu Leu Ile Ile Lys Asp Glu Gly
1      5      10      15
Asp Thr Lys Glu Phe Thr Ile Glu Asn Pro Gly Lys Tyr Thr Leu Met
      20      25      30
Val Val Phe Lys Asp Asn Arg Asn Asn Glu Gln Arg Ile Glu Asn Thr
      35      40      45
Phe Val Val Asp Glu Gln Thr Pro Met Asn Val Glu Met Thr Pro Lys
      50      55      60
Phe Ser Asn Lys Tyr Met Arg Ala Pro Leu Asp Val Thr Leu Arg Ser
65      70      75      80
Asn Ile Lys Ile Ser His Ser Ala Asp Ser Ile Asp Thr Val Thr Tyr
      85      90      95
Lys Val Asn Gly Glu Val Ile Pro Ser Gly Lys Asn Tyr Trp Ala Gln
      100      105      110
Leu Ile Ser Gly Leu Lys Glu Lys Lys Tyr Glu Ile Thr Ile Asp Val
      115      120      125
Val Ser Lys Leu Gly Gln Arg Gly Ser Ala Ser Val Glu Phe Asp Val
      130      135      140
Val Lys Asn Ala Val Pro Asn Cys Thr Leu Ser Tyr Thr Glu Thr Asn
145      150      155      160
Leu Ser Trp Ser Phe Thr Asn Lys Cys Asp Asp Thr Asp Gly Lys Met
      165      170      175
Val Arg Tyr Glu Trp Phe Ile Asn Gly Glu Leu Arg Asn Val Phe Gly
      180      185      190
Ser Thr Ala Thr Leu Ser Lys Asn Leu Asn Arg Gly Lys Gln Asp Ile
      195      200      205
Lys Val Ile Ala Tyr Asp Asp Ser Gly Asp Phe Ala Thr Gln His Val
210      215      220
Thr Val Phe Gly Pro Ala Glu Glu Ala Ser Lys Ser Glu Asn Thr Val
225      230      235      240
Ser Ile Pro Ser Ser Glu
      245

```

<210> 5851

<211> 139

<212> PRT

<213> Enterobacter cloacae

<400> 5851

```

Val Leu Asp Ala Gln Ile Ser Val Cys Ala Cys Ser Ser Leu Ile Arg
1      5      10      15
Cys Ile Asn Thr Thr Pro His Met Arg Gly Phe Phe Val Pro Asp Ser
      20      25      30
Arg Val Ser Cys Gly Cys Arg Val Ala Val Ala His Tyr Pro Ala Tyr
      35      40      45
Arg Ile Gln Tyr Ala Arg Ile Glu Pro Trp Ser Lys Leu Phe Ile Arg
      50      55      60
Pro Arg Met Gly Glu Pro Trp Gly Ile Val Leu Leu Asp Ser Ala Lys
65      70      75      80
Glu Ser Gly Ser Asp Gly Gly Gly Gly Arg Ile Thr Gln Arg Phe Ala
      85      90      95
Leu Arg Pro Ser Gly Arg Cys Met Arg Gln Arg Phe Leu Asp Thr Leu
      100      105      110
Glu Ser Asn Leu Gly Arg Ser Phe Ser Ser Phe Pro Ala Leu Lys Asn
      115      120      125
His Gly Ala Leu Cys Phe Glu Arg Val Leu
      130      135

```

<210> 5852
 <211> 112
 <212> PRT
 <213> Enterobacter cloacae

<400> 5852
 Phe Ala Val Leu Ile Gln Pro Arg Ile Cys Gly Val Phe Leu Phe Pro
 1 5 10 15
 Ile Pro Gly Tyr Arg Ala Asp Ala Gly Trp Arg Leu Arg Ile Thr Arg
 20 25 30
 His Thr Glu Phe Asn Met Leu Glu Ser Asn Leu Gly Arg Ser Phe Leu
 35 40 45
 Ser Val Pro Ala Trp Glu Asn His Gly Ala Leu Cys Phe Trp Ile Val
 50 55 60
 Leu Lys Asn Pro Glu Val Met Val Val Gly Glu Gly Leu Leu Ser Ala
 65 70 75 80
 Ser Arg Phe Ala Leu Arg Val Val Ala Cys Gly Asn Ala Phe Ser Ile
 85 90 95
 Arg Ser Asn Arg Thr Leu Val Glu Ala Ser His His Ser Pro His
 100 105 110

<210> 5853
 <211> 173
 <212> PRT
 <213> Enterobacter cloacae

<400> 5853
 Phe Glu Glu Ala Glu Asp His Ala Gly Asn Ser Thr Glu Ala Lys Thr
 1 5 10 15
 Ile Arg Asp Asp Arg Lys Tyr Thr Lys Arg Glu Arg Glu Leu Pro Ala
 20 25 30
 Asn Arg Leu Asn Arg Lys Arg Ala Arg Ser Gln Ala Lys Lys Asp Gly
 35 40 45
 Asn Ala Lys Glu Gln Gln Gln Asp Gln Ile Glu Thr Lys Ile Glu Gln
 50 55 60
 Gln Ala Glu Glu Ile Glu Asn Ile Asn Ser Asp Gln Glu Lys Gln Ser
 65 70 75 80
 Arg Glu Ile Lys Glu Gly His Gln Gly Glu Glu Asn Asp Glu Ala Lys
 85 90 95
 Thr Thr Gln Ala Glu Gln Glu Glu Ile Gly Arg Lys Glu Arg Lys Arg
 100 105 110
 Gln Lys Glu Thr Gln Arg Ala Lys Asn Ile Gln Glu Arg Lys Ala Arg
 115 120 125
 Gln Pro Gly Gly Gln Gln Glu Gln Ala Arg Glu Ile Lys Arg Glu Ile
 130 135 140
 Glu Ser Gln Gln Pro His Asn Glu Ser Leu Phe Gln Lys Val Asn Tyr
 145 150 155 160
 Leu Ser Tyr Ile Asn Arg Arg Gly Arg Arg Thr Arg Ala
 165 170

<210> 5854
 <211> 270
 <212> PRT
 <213> Enterobacter cloacae

<400> 5854
 Pro Phe Cys Arg Asp Thr Val Met Gln Ala Glu Ile Leu Leu Thr Leu
 1 5 10 15
 Arg Leu Gln Gln Lys Leu Phe Ala Asp Pro Arg Arg Ile Ala Leu Leu
 20 25 30
 Lys Gln Ile Glu Gln Thr Gly Ser Ile Ser Gln Gly Ala Lys Asn Ala

```
<210> 5855
<211> 388
<212> PRT
<213> Enterobacter cloacae

<220>
<221>UNSURE
<222>(329)
```

<400>	5855														
His	Met	Ser	Ser	Leu	His	Ile	Ser	Gln	Gly	Thr	Phe	Arg	Leu	Ser	Asp
1				5					10					15	
Thr	Arg	Thr	Leu	Ser	Leu	Pro	Glu	Leu	Thr	Leu	Arg	Ala	Gly	Glu	Ser
			20					25					30		
Trp	Ala	Phe	Val	Gly	Ser	Asn	Gly	Ser	Gly	Lys	Ser	Ala	Leu	Ala	Arg
			35				40					45			
Ala	Leu	Ala	Gly	Glu	Ile	Thr	Gln	Leu	Lys	Gly	Glu	Arg	Arg	Cys	Thr
	50					55					60				
Phe	Thr	Arg	Leu	Thr	Arg	Leu	Ser	Phe	Glu	Gln	Leu	Gln	Lys	Leu	Val
65					70					75					80
Ser	Asp	Glu	Trp	Gln	Arg	Asn	Asn	Thr	Asp	Leu	Leu	Ser	Pro	Gly	Glu
				85					90					95	
Glu	Asp	Thr	Gly	Arg	Thr	Thr	Ala	Glu	Ile	Ile	Gln	Asp	Glu	Ile	Lys
			100					105					110		
Asp	Pro	Ala	Arg	Cys	Gln	Gln	Leu	Ala	Glu	Gln	Phe	Gly	Ile	Thr	Ala
			115				120					125			
Leu	Leu	Asn	Arg	Arg	Phe	Lys	Tyr	Leu	Ser	Thr	Gly	Glu	Thr	Arg	Lys
			130			135					140				
Thr	Leu	Leu	Cys	Gln	Ala	Leu	Met	Ser	Glu	Pro	Glu	Leu	Leu	Ile	Leu
145					150						155				160
Asp	Glu	Pro	Phe	Asp	Gly	Leu	Asp	Val	Gln	Ser	Arg	Ala	Gln	Leu	Ala

```
<210> 5856
<211> 264
<212> PRT
<213> Enterobacter cloacae
```

<400> 5856															
Gly 1	Lys	Thr	Met	Ile 5	Thr	Leu	Cys	Lys	Thr 10	Cys	Gly	Thr	Ala	Tyr 15	Asp
Glu	Gln	Pro	Lys 20	Asn	Cys	Pro	Ile	Cys 25	Asp	Asp	Glu	Arg	Gln 30	Tyr	Val
Pro	Val	Thr 35	Gly	Gln	Ala	Trp	Thr 40	Asp	Phe	Asp	Ser	Leu 45	Thr	Thr	Thr
His	Thr 50	Asn	Lys	Trp	Gln	Gln 55	Leu	Glu	Pro	Gln	Leu 60	Phe	Ser	Ile	Lys
Thr 65	Val	Pro	Ala	Phe	Ala 70	Ile	Asn	Gln	Arg	Ala 75	Leu	Leu	Leu	Arg	Thr 80
Pro	Gln	Gly	Asn 85	Val	Leu	Trp	Asp	Cys	Ile 90	Ala	Asn	Leu	Asp	Pro 95	Ala
Thr	Arg	Ala	Leu 100	Val	Asp	Ala	Leu	Gly 105	Gly	Ile	Ser	Ala	Ile 110	Ala	Ile
Ser	His	Pro 115	His	Tyr	Tyr	Thr	Thr 120	Met	Gln	Glu	Trp	Ala 125	Ala	Ala	Phe
Asn	Ala 130	Pro	Ile	Tyr	Leu	His 135	Ala	Ser	Asp	Arg	Gln	Trp 140	Val	Met	Arg
Asp 145	Ser	Pro	Ala	Ile	Arg 150	Phe	Trp	Glu	Glu	Asp 155	Ala	Leu	Glu	Ile	Met 160
Pro	Leu	Val	Thr 165	Leu	Leu	Arg	Leu	Gly 170	Gly	His	Phe	Ala	Gly 175	Gly	Thr
Val	Leu	His	Trp 180	Gln	Ser	Gly	Asp 185	Gly	Val	Leu	Leu	Ala	Gly 190	Asp	Ile
Leu	Gln	Val	Thr	Pro	Gly	Lys	Asp	Ala	Val	Ser	Phe	Met	Trp	Ser	Tyr

```
<210> 5857
<211> 277
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 5858
<211> 68
<212> PRT
<213> Enterobacter cloacae
```

<400> 5858
Gly Leu Ile Leu Ala Gly Phe Ile Asn Ser Pro Met Val Gly Gln Gly
1 5 10 15

Leu Phe Leu Phe Asn Ile Pro Ile Gly Gly His Val Ser Cys Gly Gly
 20 25 30
 Phe Leu Lys Val Pro Ser Tyr Arg Pro Lys Pro Glu Asp Val Glu Phe
 35 40 45
 Asp Ala Arg Arg Asp Leu Phe Cys His His Trp Ala Phe Pro Leu
 50 55 60
 Gln Ser Gly
 65

<210> 5859

<211> 247

<212> PRT

<213> Enterobacter cloacae

<400> 5859

Thr Arg Ser Ile Pro Leu Thr Phe Thr Gly Ser Leu Met Arg Pro Ile
 1 5 10 15
 Val Val Val Leu Leu Ile Leu Ala Ala Ala Leu Thr Pro Ile Leu Trp
 20 25 30
 Arg Val Glu Arg Ala Ala Pro Asp Pro Val Val Gln Val Asp Leu Leu
 35 40 45
 Ala Ser Arg Glu Val Arg Ile Ala Thr Ala Ile Ser Ala Gly Asn Gly
 50 55 60
 Leu Ser Gln Ala Ala Ile Val Phe Ile Pro Ser Tyr Ala Phe Leu Ala
 65 70 75 80
 Leu Ser Leu Ser Glu Ser Met Ala Ser Phe Ser Leu Leu Pro Phe Val
 85 90 95
 Thr Thr Met Ala Leu Ser Ala Pro Ile Val Gly Val Leu Leu Asp Arg
 100 105 110
 Val Gly Ser Arg Val Val Met Ile Ser Gly Ser Leu Ile Leu Met Val
 115 120 125
 Gly Cys Thr Ile Met Ala Leu Ser Ser Thr Thr Pro Leu Phe Ile
 130 135 140
 Leu Ala Glu Val Leu Met Ala Leu Gly Leu Ile Thr Val Ile Gly Ala
 145 150 155 160
 Pro Leu Arg Tyr Ile Met Leu Ser Glu Thr Pro Pro Glu His Arg Ala
 165 170 175
 Ser Gly Gln Ala Leu Ile Asn Ile Leu Ser Ser Ala Gly Gln Leu Val
 180 185 190
 Gly Gly Ala Leu Ile Gly Gly Ile Val Ala Ser Met Gly Ser Gly Val
 195 200 205
 Met Gly Tyr Arg Phe Ser Phe Leu Phe Leu Val Ala Val Ala Phe Thr
 210 215 220
 Leu Phe Leu Leu Ser Thr Gly Leu Lys Gly Arg Asp Val Glu Leu Glu
 225 230 235 240
 Thr Met Lys Arg Asp Ser Cys
 245

<210> 5860

<211> 250

<212> PRT

<213> Enterobacter cloacae

<400> 5860

Phe Met Phe Leu Ser Val Ile Thr Val Ala Phe Arg Asn Tyr Glu Gly
 1 5 10 15
 Val Val Lys Thr Trp Arg Ser Leu Arg Asn Leu Ala Arg Asp Pro Ser
 20 25 30
 Leu Thr Phe Glu Trp Ile Val Val Asp Gly Gly Ser Asn Asp Gly Thr
 35 40 45
 Ala Glu Phe Leu Glu Lys Leu Asn Gly Glu Phe Asn Leu Arg Tyr Ile

50		55		60
Ser Glu Lys Asp Lys Gly Ile Tyr Asp Ala Met Asn Lys Gly Ile Asn				
65	70		75	80
Met Ala Gln Gly Arg Tyr Ala Ile Phe Leu Asn Ser Gly Asp Val Phe				
	85		90	95
His Glu Asn Val Ala Leu Phe Ala Arg Gln Leu Ala Arg Gln Lys Glu				
	100		105	110
Asp Ala Met Phe Ile Gly Asp Ala Leu Leu Asp Phe Gly Glu Gly Lys				
	115		120	125
Lys Val Leu Arg Gly Ala Lys Pro Gly Trp Tyr Ile Tyr His Ser Leu				
	130		135	140
Pro Ala Ser His Gln Ala Ile Phe Phe Pro Met Ser Gly Leu Lys Lys				
145	150		155	160
Gln Pro Tyr Asp Leu Arg Tyr Lys Val Ser Ser Asp Tyr Ala Leu Ala				
	165		170	175
Ala Ser Leu Tyr Lys Ser Gly Tyr Pro Phe Arg Arg Ile Lys Gly Leu				
	180		185	190
Val Ser Glu Phe Ser Met Gly Gly Val Ser Thr Ser Asn Asn Leu Glu				
	195		200	205
Leu Cys Gln Asp Ala Lys Asn Val Gln Arg Lys Ile Leu Arg Val Pro				
	210		215	220
Gly Phe Trp Ala Glu Leu Ser Tyr Phe Leu Arg Leu Lys Thr Thr Gly				
225	230		235	240
Lys Ala Lys Ala Leu Tyr Asn Lys Ala				
	245		250	

<210> 5861

<211> 117

<212> PRT

<213> Enterobacter cloacae

<400> 5861

Gly Asn Val Met Gln Glu Leu Asn Gly Phe Ser Val Pro Lys Gly Phe				
1	5		10	15
Arg Gly Gly Ser Gly Ile Lys Val Gln Leu Trp Trp Ala Val Gln Ala				
	20		25	30
Thr Leu Phe Ala Trp Ser Pro Gln Ile Leu Tyr Arg Trp Arg Ala Phe				
	35		40	45
Leu Leu Arg Leu Phe Gly Ala Lys Ile Gly Lys Asn Val Val Ile Arg				
	50		55	60
Pro Ser Val Lys Ile Thr Tyr Pro Trp Lys Leu Thr Leu Gly Asp Tyr				
65	70		75	80
Ala Trp Val Gly Asp Asp Ala Val Leu Tyr Thr Leu Gly Glu Ile Thr				
	85		90	95
Ile Gly Ala Asn Ser Val Val Ser Gln Lys Cys Tyr Leu Cys Thr Gly				
	100		105	110
Ser His Asp Phe Met				
	115			

<210> 5862

<211> 76

<212> PRT

<213> Enterobacter cloacae

<400> 5862

Ile Ile Tyr Phe Ser Trp Phe Ala Val Leu Leu Thr Leu Trp Tyr Leu				
1	5		10	15
Phe Lys Val Phe Lys Met Met Ile Asn Ala Phe Gly Asp Asn Gln Asn				
	20		25	30
Phe Arg Val Gln Leu Tyr Leu Phe Thr Pro Val Ser Leu Phe Phe Thr				
	35		40	45

Gly Ser Ile Phe Ser Pro Glu Tyr Ala Phe Leu Ile Val Cys Pro Phe
 50 55 60
 Ile Leu Arg Lys Ala Leu Asn Ile Thr Ser Val
 65 70 75

<210> 5863

<211> 124

<212> PRT

<213> Enterobacter cloacae

<400> 5863

Thr Ala Ala Asp Leu Leu Glu Leu Ser Thr Ser Gln Arg Gln Gly
 1 5 10 15
 Arg Tyr Lys Thr Thr Leu Asn Arg Gly Val Met Ala Pro Lys Leu Leu
 20 25 30
 Ile Ile Asp Glu Ile Gly Tyr Leu Pro Phe Ser Gln Glu Glu Ala Lys
 35 40 45
 Leu Phe Phe Gln Val Ile Ala Lys Cys Tyr Glu Lys Ser Ala Met Ile
 50 55 60
 Leu Thr Ser Asn Leu Pro Phe Gly Gln Trp Asp Gln Thr Phe Ala Gly
 65 70 75 80
 Asp Ala Ala Leu Thr Ser Ala Met Leu Asp Arg Ile Leu His His Ser
 85 90 95
 His Val Val Gln Ile Lys Gly Glu Ser Tyr Arg Leu Lys Gln Lys Arg
 100 105 110
 Lys Ala Gly Val Ile Ala Glu Ala Asn Pro Glu
 115 120

<210> 5864

<211> 709

<212> PRT

<213> Enterobacter cloacae

<400> 5864

Thr Arg Asn Gln Met Ala Arg Thr Thr Pro Ile Ala Arg Tyr Arg Asn
 1 5 10 15
 Ile Gly Ile Ser Ala His Ile Asp Ala Gly Lys Thr Thr Thr Glu
 20 25 30
 Arg Ile Leu Phe Tyr Thr Gly Val Asn His Lys Ile Gly Glu Val His
 35 40 45
 Asp Gly Ala Ala Thr Met Asp Trp Met Glu Gln Glu Gln Glu Arg Gly
 50 55 60
 Ile Thr Ile Thr Ser Ala Ala Thr Thr Ala Phe Trp Ser Gly Met Ala
 65 70 75 80
 Lys Gln Tyr Glu Pro His Arg Val Asn Ile Ile Asp Thr Pro Gly His
 85 90 95
 Val Asp Phe Thr Ile Glu Val Glu Arg Ser Met Arg Val Leu Asp Gly
 100 105 110
 Ala Val Met Val Tyr Cys Ala Val Gly Gly Val Gln Pro Gln Ser Glu
 115 120 125
 Thr Val Trp Arg Gln Ala Asn Lys Tyr Lys Val Pro Arg Ile Ala Phe
 130 135 140
 Val Asn Lys Met Asp Arg Met Gly Ala Asn Phe Leu Lys Val Val Gly
 145 150 155 160
 Gln Ile Lys Thr Arg Leu Gly Ala Asn Pro Val Pro Leu Gln Leu Ala
 165 170 175
 Ile Gly Ala Glu Gly Phe Thr Gly Val Ile Asp Leu Val Lys Met
 180 185 190
 Lys Ala Ile Asn Trp Asn Glu Thr Asp Ala Gly Val Thr Phe Glu Tyr
 195 200 205
 Glu Asp Ile Pro Ala Glu Met Gln Asp Leu Ala Asp Glu Trp His Gln

210	215	220
Asn Leu Ile Glu Ser	Ala Ala Glu Ala Ser	Glu Glu Leu Met Glu Lys
225	230	235
Tyr Leu Gly Gly	Glu Leu Ser Glu	Gln Glu Ile Lys Ser Ala Leu
	245	250
Arg Gln Arg Val	Leu Asn Asn Glu	Ile Ile Leu Val Thr Cys Gly Ser
	260	265
Ala Phe Lys Asn Lys	Gly Val Gln Ala Met	Leu Asp Ala Val Val Asp
	275	280
Tyr Leu Pro Ser Pro	Ile Asp Val Pro	Ala Ile Asn Gly Ile Leu Asp
	290	295
Asp Gly Lys Asp Thr	Pro Ala Glu Arg	His Ala Ser Asp Glu Glu Pro
305	310	315
Phe Ser Ala Leu Ala	Phe Lys Ile Ala	Thr Asp Pro Phe Val Gly Asn
	325	330
Leu Thr Phe Phe Arg	Val Tyr Ser Gly	Val Val Asn Ser Gly Asp Thr
	340	345
Ile Leu Asn Ser Val	Lys Ala Ala Arg	Glu Arg Phe Gly Arg Ile Val
	355	360
Gln Met His Ala Asn	Lys Arg Glu Glu	Ile Lys Glu Val Arg Ala Gly
	370	375
Asp Ile Ala Ala Ala	Ile Gly Leu Lys	Asp Val Thr Thr Gly Asp Thr
385	390	395
Leu Cys Asp Pro Asp	His Pro Ile Ile	Leu Glu Arg Met Glu Phe Pro
	405	410
Glu Pro Val Ile Ser	Ile Ala Val Glu	Pro Lys Thr Lys Ala Asp Gln
	420	425
Glu Lys Met Gly Leu	Ala Leu Gly Arg	Leu Ala Lys Glu Asp Pro Ser
	435	440
Phe Arg Val Trp Thr	Asp Glu Glu Ser	Asn Gln Thr Ile Ile Ala Gly
	450	455
Met Gly Glu Leu His	Leu Asp Ile Ile	Val Asp Arg Met Lys Arg Glu
465	470	475
Phe Asn Val Glu Ala	Asn Val Gly Lys	Pro Gln Val Ala Tyr Arg Glu
	485	490
Ala Ile Arg Ala Lys	Val Thr Asp Val	Glu Gly Lys His Ala Lys Gln
	500	505
Ser Gly Gly Arg Gly	Gln Tyr Gly His	Val Val Ile Asp Met Tyr Pro
	515	520
Leu Glu Pro Gly Ser	Asn Pro Lys Gly	Tyr Glu Phe Ile Asn Asp Ile
	530	535
Lys Gly Gly Val Ile	Pro Gly Glu Tyr	Ile Pro Ala Val Asp Lys Gly
545	550	555
Ile Gln Glu Gln Leu	Lys Ala Gly Pro	Leu Ala Gly Tyr Pro Val Val
	565	570
Asp Met Gly Val Arg	Leu His Phe Gly	Ser Tyr His Asp Val Asp Ser
	580	585
Ser Glu Leu Ala Phe	Lys Leu Ala Ala	Ser Ile Ala Phe Lys Glu Gly
	595	600
Phe Lys Lys Ala Lys	Pro Val Leu Leu	Glu Pro Ile Met Lys Val Glu
	610	615
Val Glu Thr Pro Glu	Glu Asn Thr Gly	Asp Val Ile Gly Asp Leu Ser
625	630	635
Arg Arg Arg Gly Met	Leu Arg Gly Gln	Glu Ser Glu Val Thr Gly Val
	645	650
Lys Ile His Ala Glu	Val Pro Leu Ser	Glu Met Phe Gly Tyr Ala Thr
	660	665
Gln Leu Arg Ser Leu	Thr Lys Gly Arg	Ala Ser Tyr Thr Met Glu Phe
	675	680
Leu Lys Tyr Asp Asp	Ala Pro Asn Asn	Val Ala Gln Ala Val Ile Glu
690	695	700

Ala Arg Gly Lys
705

<210> 5865
<211> 126
<212> PRT
<213> Enterobacter cloacae

<400> 5865
Ser Thr Gly Leu Lys Pro Lys Ser Arg Ala Leu Ser Glu Gly Glu Ser
1 5 10 15
Thr Ile Val Arg Asn Ile Ala Val Ser Lys Glu Lys Phe Glu Arg Thr
20 25 30
Lys Pro His Val Asn Val Gly Thr Ile Gly His Val Asp His Gly Lys
35 40 45
Thr Thr Leu Thr Ala Ala Ile Thr Thr Val Leu Ala Gln Thr Tyr Gly
50 55 60
Gly Ala Ala Arg Ala Phe Asp Gln Ile Asp Asn Ala Pro Glu Glu Lys
65 70 75 80
Ala Arg Gly Ile Thr Ile Asn Thr Ser His Val Glu Tyr Asp Thr Pro
85 90 95
Thr Arg His Tyr Ala His Val Asp Cys Pro Gly His Ala Asp Tyr Val
100 105 110
Ser Leu His Pro Arg Ala Leu Asp Gly Ser Thr Leu Arg
115 120 125

<210> 5866
<211> 235
<212> PRT
<213> Enterobacter cloacae

<400> 5866
Cys Thr Thr Phe Gly Gln Arg Thr Gln Leu Ser Cys Ile Ser Glu His
1 5 10 15
Phe Arg Gln Arg Asn Phe Ser Val Asp Leu Asn Ala Ser Tyr Phe Gly
20 25 30
Phe Leu Thr Thr Gln His Thr Ala Thr Thr Ala Gln Val Thr Asp Asn
35 40 45
Val Thr Gly Val Leu Phe Arg Ser Phe Tyr Phe Asn Leu His Asp Arg
50 55 60
Leu Lys Gln Asn Trp Phe Cys Phe Leu Lys Ala Phe Phe Lys Gly Asn
65 70 75 80
Arg Arg Ser Gln Phe Lys Arg Gln Phe Arg Gly Val Asn Val Val Val
85 90 95
Arg Thr Glu Val Gln Thr Asn Thr His Val Tyr Asn Arg Val Thr Ser
100 105 110
Gln Arg Thr Ser Phe Gln Leu Leu Leu Asp Ala Phe Ile Asn Gly Arg
115 120 125
Asp Val Phe Ala Arg Asn Tyr Thr Thr Phe Asp Val Val Asp Glu Leu
130 135 140
Val Thr Phe Arg Val Arg Ala Arg Leu Gln Trp Val His Val Asp His
145 150 155 160
Asn Val Thr Val Leu Thr Ala Thr Thr Arg Leu Leu Ser Val Phe Thr
165 170 175
Phe Asn Val Gly Asn Phe Arg Ala Asn Arg Phe Ala Val Ser Asn Leu
180 185 190
Arg Phe Thr His Val Arg Phe Asn Val Glu Phe Thr Leu His Thr Val
195 200 205
Asn Asp Asp Val Gln Val Gln Phe Thr His Thr Ser Asp Asp Gly Leu
210 215 220
Val Arg Phe Phe Ile Ser Pro Tyr Thr Glu

225

230

235

<210> 5867

<211> 371

<212> PRT

<213> Enterobacter cloacae

<400> 5867

Trp Val Phe Phe Arg Gln Thr Ala Gln Ser Gln Thr His Phe Phe Leu
 1 5 10 15
 Val Ser Phe Gly Phe Trp Phe Asn Cys Asp Gly Asp Tyr Arg Leu Arg
 20 25 30
 Glu Phe His Thr Leu Gln Asn Asp Arg Val Ile Arg Ile Thr Gln Ser
 35 40 45
 Val Thr Ser Gly His Val Phe Gln Thr Asp Ser Ser Ser Asp Val Ala
 50 55 60
 Arg Thr Asn Phe Phe Asp Leu Phe Thr Phe Val Ser Val His Leu Tyr
 65 70 75 80
 Asp Thr Ala Lys Thr Phe Thr Arg Arg Phe His Gly Val Gln Asp Gly
 85 90 95
 Val Thr Gly Val Asn His Thr Arg Val Asn Ala Glu Glu Gly Gln Val
 100 105 110
 Thr His Glu Trp Val Gly Ser Asn Phe Glu Arg Gln Cys Arg Glu Trp
 115 120 125
 Leu Phe Ile Thr Cys Val Thr Leu Ser Arg Ser Ile Phe Thr Val Val
 130 135 140
 Gln Asp Ala Val Asp Arg Arg Asn Val Asn Arg Gly Trp Gln Val Val
 145 150 155 160
 Asn Tyr Arg Ile Gln His Arg Leu Asn Thr Phe Val Leu Glu Arg Arg
 165 170 175
 Thr Thr Gly Tyr Gln Asp Asp Phe Val Val Gln Asn Ala Leu Thr Gln
 180 185 190
 Ser Arg Phe Asp Leu Leu Leu Arg Gln Phe Phe Thr Thr Gln Val Phe
 195 200 205
 Phe His Gln Leu Phe Arg Ser Phe Cys Cys Gly Phe Asp Gln Val Leu
 210 215 220
 Val Pro Phe Val Ser Gln Val Leu His Leu Cys Arg Asp Ile Phe Val
 225 230 235 240
 Phe Glu Gly Asn Ala Arg Ile Cys Phe Val Pro Val Asp Gly Phe His
 245 250 255
 Phe His Gln Val Asp Asn Ala Gly Glu Ala Phe Phe Ser Thr Asn Cys
 260 265 270
 Gln Leu Lys Arg Asn Arg Val Arg Ala Gln Thr Gly Phe Asp Leu Ala
 275 280 285
 Asn Asn Phe Gln Glu Val Ser Thr His Thr Val His Phe Val Asn Glu
 290 295 300
 Arg Asp Ala Trp Asn Phe Ile Phe Val Cys Leu Thr Pro Tyr Gly Phe
 305 310 315 320
 Arg Leu Trp Leu Asn Thr Thr Asn Cys Ala Ile Asn His Tyr Arg Ala
 325 330 335
 Val Lys Asn Thr His Gly Thr Phe Tyr Phe Asp Gly Glu Val Asn Val
 340 345 350
 Pro Trp Gly Val Asp Asp Val Tyr Ala Met Arg Phe Val Leu Leu Ser
 355 360 365
 His Thr
 370

<210> 5868

<211> 63

<212> PRT

<213> Enterobacter cloacae

<400> 5868

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Ser Gly Ser His Arg Val Ser Pro Val Val Thr Ser Phe Arg Pro Ile
1      5      10      15
Ala Ala Ala Met Ser Pro Ala Arg Thr Ser Leu Ile Ser Ser Arg Leu
20      25      30
Leu Ala Cys Ile Cys Thr Ile Arg Pro Lys Arg Ser Arg Ala Ala Phe
35      40      45
Thr Glu Phe Arg Met Val Ser Pro Glu Leu Thr Thr Pro Glu
50      55      60

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<210> 5869

<211> 275

<212> PRT

<213> Enterobacter cloacae

<400> 5869

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Pro His Ile Leu Asp Leu Phe Ala Pro Ser Leu Glu Pro Gly His Ser
1      5      10      15
Lys Thr Met Met Ala Ala Phe Ile Val Ala Ile Arg Gly Thr Val Thr
20      25      30
Gln Ala Val Leu Leu Gly Leu Ala Ala Thr Ile Ser His Thr Ser Ile
35      40      45
Val Trp Leu Ile Ala Leu Gly Gly Met Tyr Ile Arg Gln Lys Phe Thr
50      55      60
Ala Glu Ser Ala Glu Pro Trp Phe Gln Leu Ile Ser Ala Ile Ile Ile
65      70      75      80
Leu Ala Thr Ala Ala Trp Met Phe Trp Arg Thr Trp Arg Gly Glu Lys
85      90      95
Leu Trp Arg Met Glu Gln Glu Asp Glu His Gly His Val Asn His Pro
100      105      110
His Asp Glu Thr Arg Val Ile Asp Thr Gly His Gly Ser Val Glu Leu
115      120      125
Ser Ile Phe Glu Glu Gly Gln Pro Pro His Trp Arg Leu Arg Ser Leu
130      135      140
Ser Gly Arg Lys Trp Glu Ala Ser Asp Ile Thr Leu Val Thr Asn Arg
145      150      155      160
Gly Thr Gly Thr Phe Ser Gln Val Phe Asn Phe Val Glu Lys Asp Gly
165      170      175
Phe Met Glu Ser Ala Gln Pro Ile Pro Glu Pro His Asn Phe Glu Val
180      185      190
Cys Leu Ser Leu Gly His Arg Gly His Val His Asp Tyr Asp Val Glu
195      200      205
Phe Arg Glu His Asp His Asn His Asp His Ser Ala Leu Glu Gly Leu
210      215      220
Asp Val Ser Ser Leu Glu Tyr Gln Asp Ala His Glu Lys Ala His Ala
225      230      235      240
Asn Asp Ile Lys Lys Arg Phe Ala Asn Ser Ser Val Thr Thr Gly Gln
245      250      255
Ile Ile Leu Ser Arg Pro Asp Gly Leu His His Ala Asp Gly Lys Ile
260      265      270
Lys Arg Ser
275

```

<210> 5870

<211> 149

<212> PRT

<213> Enterobacter cloacae

<400> 5870

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Val Ile Phe His Gln Pro Leu Val Ala Cys Phe Asp Lys Thr Lys Leu

```

```
<210> 5871
<211> 329
<212> PRT
<213> Enterobacter cloacae
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Gly 1	His	Met	Ser	Gln 5	Gln	Leu	Thr	Phe	Ala 10	Asp	Ser	Glu	Phe	Ser 15	Ser
Lys	Arg	Arg	Leu 20	Thr	Arg	Lys	Glu	Ile 25	Phe	Leu	Ser	Arg	Met 30	Asp	Thr
Leu	Leu	Pro 35	Trp	Pro	Gln	Leu	Leu 40	Gly	Asn	Ile	Glu	Pro 45	Val	Tyr	Pro
Lys	Ala 50	Gly	Asn	Gly	Arg	Arg 55	Pro	Tyr	Ser	Leu	Glu 60	Thr	Met	Phe	Arg
Ile 65	His	Cys	Leu	Gln 70	Leu	Trp	Tyr	Ser	Leu 75	Gly	Asp	Glu	Ala	Met 80	Glu
Asp	Ala	Leu	Tyr	Glu 85	Ile	Ala	Ser	Met	Arg 90	Gln	Phe	Ala	Leu 95	Leu	Ser
Leu	Asp	Lys	Ala 100	Ile	Pro	Asp	Arg	Thr 105	Thr	Ile	Met	Asn	Phe 110	Arg	His
Leu	Leu	Glu 115	Lys	Tyr	Lys	Leu	Thr 120	Arg	Lys	Ile	Phe	Gln 125	Thr	Val	Asn
Gln	Trp 130	Leu	Leu	Asp	Cys	Gly 135	Val	Met	Met	Thr	Gln 140	Gly	Thr	Leu	Val
Asp 145	Ala	Thr	Ile	Ile 150	Glu	Ala	Pro	Ser	Ser	Thr 155	Lys	Asn	Lys	Asn 160	Lys
Gln	Arg	Asp	Pro	Asp 165	Met	His	Gln	Thr	Lys 170	Lys	Gly	Asn	Gln 175	Trp	His
Phe	Gly	Met	Lys 180	Ala	His	Ile	Gly	Val 185	Asp	Ala	Glu	Ser	Gly 190	Leu	Thr
His	Thr	Leu 195	Val	Thr	Thr	Ala	Ala 200	Asn	Glu	His	Asp	Leu 205	Asn	Gln	Leu
Asn	Asn 210	Leu	Leu	His	Gly	Asp 215	Glu	Glu	Phe	Val	Ser	Ala 220	Asp	Ala	Gly
Tyr 225	Arg	Gly	Ala	Glu 230	Lys	Arg	Asp	Glu	Leu	Lys 235	Asp	Arg	Asp	Val 240	Asp
Trp	Phe	Ile	Ala	Glu 245	Arg	Pro	Gly	Lys	Val 250	Arg	Ile	Leu	Lys	Lys 255	His
Pro	Arg	Lys	Asn 260	Lys	Ala	Ala	Ile	Lys 265	Leu	Glu	Tyr	Leu	Lys	Ala	Ser
Ile	Arg	Ala	Lys 270	Val	Glu	His	Pro	Phe	Arg	Val	Ile	Lys	Arg	Gln	Phe

	275		280		285										
Gly	Phe	Ile	Lys	Ala	Arg	Tyr	Lys	Gly	Leu	Met	Lys	Asn	Asp	Ser	Gln
	290					295					300				
Leu	Ala	Met	Leu	Phe	Thr	Leu	Ala	Asn	Leu	Phe	Lys	Val	Asp	Gln	Met
305					310					315					320
Ile	Arg	Arg	Gln	Thr	Lys	Ser	Ala								
				325											

<210> 5872

<211> 344

<212> PRT

<213> Enterobacter cloacae

<400> 5872

Arg	Leu	Pro	Ala	Ser	Gly	Gly	Ile	Arg	Met	Arg	Lys	Ser	Val	Ile	Ala
1				5					10					15	
Ile	Ile	Ile	Ile	Val	Leu	Val	Val	Leu	Tyr	Thr	Ser	Ile	Phe	Val	Val
			20					25					30		
Lys	Glu	Gly	Glu	Arg	Gly	Ile	Lys	Phe	Gln	Phe	Ser	Ser	Val	Val	Arg
		35					40					45			
Asp	Gly	Asp	Lys	Arg	Pro	Val	Ile	Tyr	Glu	Pro	Gly	Leu	His	Phe	Lys
	50					55					60				
Ile	Pro	Phe	Ile	Gln	Ser	Val	Lys	Thr	Leu	Asp	Ala	Arg	Ile	Gln	Thr
65				70					75					80	
Met	Asp	Asn	Gln	Ala	Asp	Arg	Phe	Val	Thr	Lys	Glu	Lys	Lys	Asp	Leu
			85					90						95	
Ile	Val	Asp	Ser	Tyr	Ile	Lys	Trp	Arg	Ile	Ser	Asp	Phe	Ser	Arg	Tyr
			100					105					110		
Phe	Leu	Ala	Thr	Gly	Gly	Gly	Asp	Val	Ser	Gln	Ala	Glu	Val	Leu	Leu
		115					120					125			
Lys	Arg	Lys	Phe	Ser	Asp	Arg	Leu	Arg	Ser	Glu	Ile	Gly	Arg	Leu	Asp
	130					135						140			
Val	Lys	Asp	Ile	Val	Thr	Asp	Ser	Arg	Gly	Arg	Leu	Thr	Leu	Glu	Val
145				150						155					160
Arg	Asp	Ala	Leu	Asn	Ser	Gly	Ser	Ala	Gly	Thr	Glu	Asp	Glu	Val	Glu
			165						170					175	
Thr	Pro	Ala	Ala	Asp	Asp	Ala	Ile	Ala	Lys	Ala	Ala	Glu	Arg	Val	Gln
		180						185					190		
Ala	Glu	Thr	Asn	Gly	Lys	Val	Pro	Val	Ile	Asn	Pro	Asn	Ser	Met	Ala
		195					200					205			
Ala	Leu	Gly	Ile	Glu	Val	Val	Asp	Val	Arg	Ile	Lys	Gln	Ile	Asn	Leu
	210					215					220				
Pro	Ala	Glu	Val	Ser	Glu	Ala	Ile	Tyr	Asn	Arg	Met	Arg	Ala	Glu	Arg
225					230					235					240
Glu	Ala	Val	Ala	Arg	Arg	His	Arg	Ser	Gln	Gly	Gln	Glu	Glu	Ala	Glu
			245						250					255	
Lys	Leu	Arg	Ala	Ala	Ala	Asp	Tyr	Glu	Val	Thr	Lys	Thr	Leu	Ala	Glu
		260						265					270		
Ser	Glu	Arg	Gln	Gly	Arg	Ile	Leu	Arg	Gly	Glu	Gly	Asp	Ala	Glu	Ala
		275					280					285			
Ala	Lys	Leu	Phe	Ala	Asp	Ala	Phe	Ser	Gln	Asp	Pro	Asp	Phe	Tyr	Ala
	290					295					300				
Phe	Ile	Arg	Ser	Leu	Arg	Ala	Tyr	Glu	Asn	Ser	Phe	Lys	Ser	Asn	Gln
305					310					315					320
Asp	Val	Met	Val	Leu	Ser	Pro	Asp	Ser	Asp	Phe	Phe	Arg	Tyr	Met	Lys
				325					330					335	
Thr	Pro	Thr	Asn	Ala	Thr	Arg									
			340												

<210> 5873

<211> 168

<212> PRT

<213> Enterobacter cloacae

<400> 5873

Gly Gly Val Asp Asp Phe Ala Arg Cys Val Lys Tyr Ile Arg Glu Gly
 1 5 10 15
 Gln Ala Tyr Thr Asn Glu Val Gln Pro Arg Ala Asn Gly Gln Ala Gln
 20 25 30
 Arg Ile Leu Glu Glu Ala Arg Ala Tyr Lys Thr Gln Thr Ile Leu Glu
 35 40 45
 Ala Gln Gly Glu Val Ala Arg Phe Ala Lys Ile Leu Pro Glu Tyr Lys
 50 55 60
 Ala Ala Pro Glu Ile Thr Arg Glu Arg Leu Tyr Ile Glu Thr Met Glu
 65 70 75 80
 Lys Val Leu Ser His Thr Arg Lys Val Leu Val Asn Asp Asn Lys Gly
 85 90 95
 Gly Asn Leu Met Val Leu Pro Leu Asp Gln Met Leu Lys Gly Gly Ser
 100 105 110
 Ala Pro Ala Ala Lys Asp Asn Ser Gly Ala Asn Asn Leu Leu Arg Leu
 115 120 125
 Pro Pro Ala Ser Ser Gly Ser Ala Ser Ala Asn Thr Thr Pro Ser Ser
 130 135 140
 Asn Asp Gly Asp Ile Met Asp Gln Arg Arg Ala Asn Ala Gln Arg Asn
 145 150 155 160
 Asp Tyr Gln Arg Gln Gly Glu
 165

<210> 5874

<211> 303

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (252)

<220>

<221> UNSURE

<222> (255)

<220>

<221> UNSURE

<222> (256)

<220>

<221> UNSURE

<222> (257)

<220>

<221> UNSURE

<222> (258)

<220>

<221> UNSURE

<222> (259)

<220>

<221> UNSURE

<222> (260)

<220>

<221>UNSURE
<222>(261)

<220>
<221>UNSURE
<222>(262)

<220>
<221>UNSURE
<222>(263)

<220>
<221>UNSURE
<222>(264)

<220>
<221>UNSURE
<222>(265)

<220>
<221>UNSURE
<222>(266)

<220>
<221>UNSURE
<222>(267)

<220>
<221>UNSURE
<222>(296)

<400> 5874

Val	Arg	Leu	Arg	Gly	Ser	Ser	Leu	Pro	Leu	Val	Lys	Ile	Met	Thr	Asp
1				5					10				15		
Pro	Ala	Gly	Ala	Ser	Glu	Leu	Val	Phe	Gly	Leu	Phe	Trp	Leu	Leu	Gly
			20					25					30		
Tyr	Gln	Phe	Ser	Pro	Arg	Leu	Ala	Asp	Ala	Gly	Ala	Ser	Val	Phe	Trp
		35					40					45			
Arg	Met	Asp	His	Asp	Ala	Asp	Tyr	Gly	Val	Leu	Asn	Asp	Ile	Ala	Arg
	50					55					60				
Gly	Gln	Ser	Asp	Pro	Arg	Lys	Ile	Val	Leu	Gln	Trp	Asp	Glu	Met	Ile
65					70					75					80
Arg	Thr	Ala	Gly	Ser	Leu	Lys	Leu	Gly	Lys	Val	Gln	Val	Ser	Val	Leu
				85					90					95	
Val	Arg	Ser	Leu	Leu	Lys	Ser	Glu	Arg	Pro	Ser	Gly	Leu	Thr	Gln	Ala
			100					105					110		
Ile	Ile	Glu	Val	Gly	Arg	Ile	Asn	Lys	Thr	Leu	Tyr	Leu	Leu	Asn	Tyr
		115					120					125			
Ile	Asp	Asp	Glu	Asp	Tyr	Arg	Arg	Arg	Ile	Leu	Thr	Gln	Leu	Asn	Arg
	130					135					140				
Gly	Glu	Ser	Arg	His	Ala	Val	Ala	Arg	Ala	Ile	Cys	His	Gly	Gln	Lys
145					150					155					160
Gly	Glu	Ile	Arg	Lys	Arg	Tyr	Thr	Asp	Gly	Gln	Glu	Asp	Gln	Leu	Gly
				165					170					175	
Thr	Leu	Gly	Leu	Val	Thr	Asn	Ala	Val	Val	Leu	Trp	Asn	Thr	Ile	Tyr
			180					185					190		
Met	Gln	Ala	Ala	Leu	Asp	His	Leu	Arg	Ala	Gln	Gly	Glu	Thr	Leu	Asn
		195					200					205			
Asp	Glu	Asn	Ile	Ala	Arg	Leu	Ser	Pro	Leu	Cys	His	Gly	His	Ile	Asn
	210					215					220				
Met	Leu	Gly	His	Tyr	Ser	Phe	Thr	Leu	Ala	Glu	Leu	Val	Thr	Lys	Gly

225					230					235				240
His	Leu	Lys	Pro	Leu	Lys	Glu	Ala	Ser	Glu	Ala	Xaa	Asn	Val	Xaa
				245					250					255
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Thr	Asn	Arg	Pro
			260					265					270	
His	Gln	Val	His	Ala	Lys	Met	Gly	Gly	His	Pro	Ala	Gly	Glu	Lys
		275					280					285		Ala
Pro	Arg	Ala	Val	Leu	Val	Val	Xaa	Thr	Ser	Val	Gly	Pro	Phe	
	290					295					300			

<210> 5875

<211> 743

<212> PRT

<213> Enterobacter cloacae

<400> 5875

Asn	Pro	Glu	Arg	Lys	Phe	Pro	Glu	Gly	Ile	Gln	Tyr	Ser	Ile	Ala	Tyr
1				5					10					15	
Asp	Pro	Thr	Phe	Phe	Ala	Ser	Ala	Ser	Leu	Lys	Ser	Val	Ala	Thr	Thr
			20					25					30		
Leu	Leu	Glu	Ala	Thr	Ile	Leu	Val	Val	Leu	Val	Val	Met	Leu	Phe	Leu
		35					40					45			
Gln	Thr	Trp	Arg	Ala	Ser	Ile	Ile	Pro	Leu	Val	Ala	Val	Pro	Ile	Ser
		50				55					60				
Leu	Val	Gly	Thr	Phe	Ala	Leu	Met	Asp	Val	Phe	Gly	Phe	Ser	Leu	Asn
65					70				75					80	
Thr	Leu	Ser	Leu	Phe	Gly	Leu	Val	Leu	Ser	Ile	Gly	Ile	Val	Val	Asp
				85				90						95	
Asp	Ala	Ile	Val	Val	Val	Glu	Asn	Val	Glu	Arg	His	Ile	Ala	Arg	Gly
			100					105					110		
Leu	Ser	Pro	Lys	Asp	Ala	Ala	Arg	Lys	Ala	Met	Asp	Glu	Val	Thr	Gly
		115					120					125			
Pro	Ile	Leu	Ala	Ile	Thr	Ser	Val	Leu	Ala	Ala	Val	Phe	Ile	Pro	Ser
		130				135					140				
Ala	Phe	Leu	Ser	Gly	Leu	Gln	Gly	Glu	Phe	Tyr	Arg	Gln	Phe	Ala	Leu
145					150					155				160	
Thr	Ile	Ala	Ile	Ser	Thr	Ile	Leu	Ser	Ala	Ile	Asn	Ser	Leu	Thr	Leu
				165					170					175	
Ser	Pro	Ala	Leu	Ala	Ser	Val	Leu	Leu	Lys	Pro	His	Gln	Gly	Thr	Asp
			180				185						190		
Lys	Lys	Asp	Met	Leu	Thr	Arg	Val	Leu	Glu	Arg	Leu	Leu	Gly	Ser	Phe
		195					200					205			
Phe	Gly	Arg	Phe	Asn	Thr	Phe	Phe	Asp	Arg	Leu	Ser	Glu	Lys	Tyr	Val
	210					215					220				
Asp	Thr	Val	Arg	Arg	Ile	Val	Arg	Gly	Ser	Thr	Ile	Val	Leu	Ile	Leu
225					230					235				240	
Tyr	Ala	Gly	Phe	Leu	Ala	Met	Thr	Phe	Leu	Gly	Phe	Lys	Gln	Val	Pro
				245					250					255	
Gly	Gly	Phe	Val	Pro	Ala	Gln	Asp	Lys	Tyr	Tyr	Leu	Val	Gly	Ile	Ala
			260					265					270		
Gln	Leu	Pro	Thr	Gly	Ala	Ser	Leu	Asp	Arg	Thr	Glu	Ala	Val	Val	Lys
		275					280					285			
Glu	Met	Thr	Arg	Leu	Ala	Leu	Ala	Gln	Pro	Gly	Val	Glu	Ser	Val	Val
	290					295					300				
Ala	Phe	Pro	Gly	Leu	Ser	Val	Asn	Gly	Pro	Asn	Met	Pro	Asn	Ser	Ala
305					310					315				320	
Leu	Met	Phe	Thr	Met	Leu	Lys	Pro	Phe	Lys	Asp	Arg	Gln	Asp	Pro	Ser
				325					330					335	
Leu	Ser	Ala	Tyr	Ala	Ile	Ala	Gly	Ser	Leu	Met	Gly	Lys	Phe	Ser	Lys
			340					345					350		
Ile	Pro	Asp	Gly	Phe	Val	Gly	Ile	Phe	Pro	Pro	Pro	Pro	Val	Pro	Gly

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<210> 5876
<211> 93
<212> PRT
<213> Enterobacter cloacae
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<400> 5876
Leu Gln Gln Met Asn Gly Lys Ala Leu Asp Leu Thr Thr Val Val Ser

1				5					10				15		
Pro	Lys	Leu	Lys	Gly	Thr	Thr	Thr	Lys	Gln	Asp	Thr	Tyr	Met	Gln	Phe
			20					25					30		
His	Leu	Asp	Asn	Met	Thr	Cys	Gly	Gly	Cys	Ala	Arg	Thr	Val	Thr	Lys
		35					40					45			
Val	Ile	Gln	Asn	Leu	Asp	Pro	Asp	Ala	Ser	Ile	Val	Thr	Asp	Pro	Pro
		50				55					60				
Thr	Arg	Lys	Val	Glu	Ile	Gln	Thr	Leu	Leu	Ser	Val	Asp	Leu	Ile	Ser
65					70					75					80
Asp	Ala	Leu	Arg	Glu	Ala	Gly	Phe	Pro	Pro	Xaa	Glu				
				85					90						

<210> 5877

<211> 384

<212> PRT

<213> Enterobacter cloacae

<400> 5877

Pro	Pro	Ser	Val	Gln	Gly	Ala	Leu	Ala	Gly	Gly	Pro	Ser	Ala	Arg	Phe
1				5					10					15	
Arg	Gly	Thr	Gly	Asn	Arg	Cys	Gly	His	Cys	Leu	Arg	Ala	Thr	Phe	Leu
			20					25					30		
Pro	Ser	Pro	Thr	Arg	Arg	Phe	Ser	Ala	Ile	Thr	Ala	Glu	Tyr	Leu	Val
		35					40					45			
Thr	Ala	Ala	Gly	Tyr	His	Phe	Glu	Glu	Asn	Arg	Tyr	Ala	Ile	Gly	Glu
		50				55					60				
Gly	Glu	Thr	Ile	His	Arg	Thr	Asp	Phe	Ser	Val	Ile	Pro	Ala	Ser	Val
65				70						75					80
Ser	Tyr	Arg	Pro	Ala	Gln	Ser	Thr	Ala	Trp	Pro	Arg	Thr	Tyr	Gly	Pro
				85					90					95	
Gln	Thr	Ala	Lys	Val	Val	Gly	Pro	Gln	Gly	Glu	Ser	Ile	Trp	Thr	Asp
			100					105					110		
Lys	Tyr	Gly	Arg	Val	Lys	Val	Lys	Phe	His	Trp	Asp	Arg	Leu	Ala	Lys
		115					120					125			
Gly	Asp	Asp	Thr	Ser	Ser	Cys	Trp	Val	Arg	Val	Ser	Ser	Ala	Trp	Ala
	130					135					140				
Gly	Gln	Gly	Tyr	Gly	Gly	Val	Gln	Ile	Pro	Arg	Val	Gly	Asp	Glu	Val
145				150						155					160
Val	Val	Asp	Phe	Ile	Asn	Gly	Asp	Pro	Asp	Arg	Pro	Ile	Ile	Thr	Gly
				165					170					175	
Arg	Val	Tyr	Asn	Asp	Ala	Ser	Met	Pro	Pro	Trp	Ala	Leu	Pro	Ala	Ala
			180				185						190		
Ala	Thr	Gln	Met	Gly	Phe	Met	Ser	Arg	Ser	Lys	Asp	Gly	His	Lys	Asp
		195					200					205			
Asn	Ala	Asn	Ala	Leu	Arg	Phe	Glu	Asp	Lys	Ala	Gly	Gln	Glu	Gln	Ile
	210					215					220				
Trp	Ile	His	Ala	Glu	Lys	Asn	Met	Asp	Thr	Glu	Ile	Glu	Asn	Cys	Glu
225				230						235					240
Thr	His	Asp	Val	Gly	Val	Asp	Arg	Lys	Lys	Ile	Ile	Gly	Arg	Asp	Glu
				245					250					255	
His	Val	Thr	Val	Lys	Arg	Asn	Arg	Asp	Val	Asn	Val	Gly	Ala	Asn	Ser
			260					265					270		
Thr	Ser	Asn	Thr	Gly	Asn	Gln	His	Lys	Phe	Asn	Val	Gly	Lys	Asn	Gln
		275					280					285			
Thr	Val	Leu	Thr	Met	Asp	Lys	Glu	Gly	Asn	Ala	Leu	Leu	Glu	Ala	Thr
	290					295					300				
Thr	Ser	Ile	Lys	Leu	Lys	Val	Asn	Asp	Asn	Tyr	Ile	Leu	Ile	Thr	Pro
305					310					315					320
Ser	Thr	Ile	Glu	Ile	Ile	Val	Ser	Glu	Gly	Thr	Leu	Lys	Ala	Glu	Ser
				325					330					335	
Ile	Thr	Val	Ala	Ser	Phe	Lys	Gly	Thr	Glu	Leu	Thr	Lys	Leu	Gly	Gly

			340					345				350			
Gly	Ile	Asn	Ala	Glu	Met	Lys	Ala	Asn	Asp	Thr	Leu	His	Leu	Asn	Gly
		355					360					365			
Thr	Asn	Leu	Thr	Asp	Ile	Lys	Gly	Ala	Val	Val	Lys	Ile	Asn	Ser	
	370					375					380				

<210> 5878

<211> 364

<212> PRT

<213> Enterobacter cloacae

<400> 5878

Tyr	Val	Glu	Gly	Phe	Leu	Asn	Met	Gly	Gln	Pro	Ala	Ala	Arg	Ala	Thr
1				5					10					15	
Ile	Asp	Val	Ser	Ala	His	Ser	Gly	Pro	Ile	Gln	Ser	Gly	Ser	Pro	Asp
			20					25					30		
Val	Ile	Ile	Gly	Gly	Phe	Pro	Ala	Ala	Arg	Lys	Gly	Asp	Thr	Leu	Ser
		35					40					45			
Cys	Ser	Thr	His	Gly	Ser	Gly	Ile	Ile	Val	Gly	Gly	Ser	Gly	Thr	Val
	50					55					60				
Phe	Val	Asn	Gly	Met	Pro	Leu	Ala	Arg	Gln	Gly	Asp	Lys	Thr	Lys	Cys
65					70					75					80
Asp	Val	Ser	Gly	Ser	Pro	Ala	Pro	Ala	Ile	Pro	Lys	Ala	Ala	Ala	Pro
				85					90					95	
Gln	Tyr	Trp	Gly	Gly	Thr	Leu	Ala	Lys	Asn	Ala	Gly	Glu	Asp	Gly	Met
			100					105						110	
Met	His	Gly	Glu	His	Phe	Asp	Ala	Arg	Val	Leu	Gly	Ala	Tyr	Ala	Ser
		115					120					125			
Leu	Glu	Asp	Lys	Asn	Leu	Asn	Gly	Asp	Phe	Asp	Thr	Ala	Ser	Ala	Gly
	130					135					140				
Phe	Ala	Leu	Ala	Asp	Ile	Thr	Ile	Gly	Asn	Met	Lys	Ser	Lys	Asp	Leu
145					150					155					160
Leu	Arg	Ala	Glu	Met	Arg	Asn	Lys	Leu	Ala	Val	Ala	Asn	Ala	Thr	Gly
			165					170						175	
Ser	Leu	Tyr	Gly	Gly	Gly	Asn	Asp	Ile	Tyr	Gly	Leu	Asn	Ala	Asn	Ala
			180					185					190		
Ala	Ala	Thr	Gly	Glu	Gln	Tyr	Gly	Gly	Ser	Val	Ala	Ala	Gly	Lys	Glu
		195					200					205			
Gly	Thr	Leu	Tyr	Gly	Gly	Val	Ser	Gly	Asp	Val	Thr	Ile	Gly	Thr	Ala
	210					215						220			
Glu	Ala	Lys	Ala	Val	Leu	Glu	Val	Tyr	Thr	Gly	Asn	Asp	Gly	Lys	Tyr
225					230					235					240
Gly	Leu	Thr	Ala	Asp	Ala	Gly	Ala	Glu	Ala	Lys	Gly	Met	Lys	Gly	Glu
			245					250						255	
Val	Ser	Gly	Asn	Leu	Asp	Ile	Leu	Gly	Ile	Val	Ser	Gly	Glu	Ala	Lys
			260					265					270		
Ile	Asp	Gly	Ser	Phe	Gly	Ser	Ala	Gly	Leu	Ala	Gly	Gly	Gly	Ser	Ala
	275						280					285			
Phe	Trp	Asp	Thr	Lys	Asp	Tyr	Ser	Val	Asn	Val	Arg	Val	Thr	Gly	Gly
	290					295					300				
Ala	Ala	Gly	Leu	Val	Trp	Leu	Lys	Gly	Asp	Ala	Ser	Leu	Lys	Val	Ala
305					310					315					320
Phe	Lys	Pro	Ile	Leu	Asp	Phe	Phe	Asp	Tyr	Leu	Tyr	Gly	Glu	Glu	Asp
			325					330						335	
Glu	Pro	Ala	Val	Thr	Ser	Val	Leu	Thr	Glu	Ser	Gly	Asp	Gly	Thr	Ile
			340					345					350		
Ile	Thr	Gly	Cys	Val	Thr	Val	Leu	Ile	Gly	Asp					
	355						360								

<210> 5879

<211> 130

<212> PRT

<213> Enterobacter cloacae

<400> 5879

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Lys Arg Asp Thr Ile Tyr Ser Thr Gln Glu Ile Leu Met Ser Pro Phe
1      5      10      15
Ser Thr Leu Gln Leu Phe Lys Asn Leu Ser Asp Glu Thr Arg Leu Gly
      20      25      30
Ile Val Leu Met Leu Lys Glu Met Gly Glu Leu Cys Val Cys Asp Leu
      35      40      45
Cys Thr Ala Leu Glu Gln Ser Gln Pro Lys Ile Ser Arg His Leu Ala
      50      55      60
Met Leu Arg Glu Ser Gly Leu Leu Leu Asp Arg Lys Asn Gly Lys Trp
65      70      75      80
Val His Tyr Arg Leu Ser Pro His Ile Pro Ser Trp Ala Ala Gln Val
      85      90      95
Ile Glu Gln Ala Trp Leu Ser Gln Gln Asp Asp Val Gln Ala Ile Ala
      100     105     110
Arg Lys Leu Ala Ser Ala Asn Cys Ser Gly Ser Gly Lys Ala Val Cys
      115     120     125
Ile
      130

```

<210> 5880

<211> 131

<212> PRT

<213> Enterobacter cloacae

<400> 5880

```

His Leu Lys Ala Ala Val Val Ile Leu Leu Val Ala Glu Met Ser
1      5      10      15
Gly Gly His Met Lys Phe Leu Gln Asn Ile Pro Pro Tyr Leu Phe Phe
      20      25      30
Thr Gly Lys Gly Gly Val Gly Lys Thr Ser Ile Ser Cys Ala Thr Ala
      35      40      45
Ile Ser Leu Ala Glu Gln Gly Lys Arg Val Leu Leu Val Ser Thr Asp
      50      55      60
Pro Ala Ser Asn Val Gly Gln Val Phe Ser Gln Thr Ile Gly Asn Thr
65      70      75      80
Ile Leu Pro Val Ala Ser Val Pro Gly Leu Ser Ala Leu Glu Ile Asp
      85      90      95
Pro Gln Ala Ala Ala Gln Glu Tyr Arg Ala Arg Ile Val Asp Pro Ile
      100     105     110
Lys Gly Ile Leu Pro Glu Ser Ser Pro Arg Gly Trp Gln Asp Pro Ser
      115     120     125
Leu Ala Lys
      130

```

<210> 5881

<211> 111

<212> PRT

<213> Enterobacter cloacae

<400> 5881

```

Ala Phe Ile Arg Arg Thr Ile Met Glu Asn Ile Ala Leu Ile Gly Ile
1      5      10      15
Asp Leu Gly Lys Asn Ser Phe His Ile His Cys Gln Asp Arg Arg Gly
      20      25      30
Lys Ala Val Tyr Arg Lys Lys Phe Thr Arg Pro Lys Leu Ile Glu Phe
      35      40      45
Leu Ala Thr Cys Pro Ala Thr Thr Ile Ala Met Glu Ala Cys Gly Gly

```

50		55		60
Ser His Phe Met Ala Arg Lys Leu Glu Glu Leu Gly His Phe Pro Lys				
65	70	75	80	
Leu Ile Ser Pro Gln Phe Val Arg Pro Phe Val Lys Ser Asn Lys Asn				
	85	90	95	
Glu Phe Val Asp Ala Val Phe Thr Asn Gly Ala Gly Ser Thr Ile				
	100	105	110	

<210> 5882

<211> 318

<212> PRT

<213> Enterobacter cloacae

<400> 5882

Phe Met Asn Ile Lys Arg Leu Val Leu Ser Ala Leu Val Val Gly Thr	
1	5 10 15
Ser Ser Tyr Leu Thr Gly Cys Ser Ile Gly Ser Ser Glu Ser Glu Cys	
	20 25 30
Pro Gly Ile Glu Lys Gly Val Ile Cys Lys Gly Pro Arg Glu Val Met	
	35 40 45
Glu Leu Thr Asn Asn Arg Asp Asp Leu Ser Ala Leu Ala Gly Glu Glu	
	50 55 60
Ser Glu Ser Gly Lys Glu Lys Ser Ala Val Asn Asp Ser Arg Tyr Pro	
65	70 75 80
Thr Glu Ile Ser Pro Pro Gly Glu Val Lys Tyr Pro Gln Ser Thr Thr	
	85 90 95
Leu Lys Asn Gln Pro Val Ala Tyr Ser Lys Thr Glu Ile Lys Pro Val	
	100 105 110
Gly Gln Leu Pro Val Met Tyr Asp Lys Thr Leu Lys Met Gly Ala Pro	
	115 120 125
Thr Ser Ser Ile Gly Pro Arg Pro Ile Ser Gly Val Pro Val Asn Ser	
	130 135 140
Asn Val Arg Met Thr Ile Ser Tyr Ser Thr Ala Ser Ser Thr Gly Asn	
145	150 155 160
Pro Phe Val His Pro Ala Ala Glu Val Val Lys Gln Thr Ser Tyr Pro	
	165 170 175
Val Ser Ala Gly Asn Ala Pro Arg Tyr Val Ala Pro Asn Ser Asp Ile	
	180 185 190
Ser Pro Gly Lys Asp Met Tyr Ser Leu Tyr Asn Gly Gln Pro Val Asn	
	195 200 205
Pro Thr Leu Asn Pro Gly Gln Ile Gln Gln Tyr Arg Ser Gln Gly Tyr	
	210 215 220
Lys Gln Ala Val Val Ala Pro Glu Pro Leu Ala Val Leu Gln Gln Gly	
225	230 235 240
Lys Val Met Arg Ile Thr Phe Ala Pro Tyr Thr Asp Asp Asn Asp Ala	
	245 250 255
Leu Asn Leu Pro Gly Tyr Val Tyr Val Asn Val Lys Pro Gln Thr Trp	
	260 265 270
Ile Ala Gly Lys Asn Ser Thr Ser Asn Pro Ala Arg Ile Val Pro Leu	
	275 280 285
Glu Val Gln Asp Ala Ala Arg Glu Asn Met Gln Gln Gln Gln Lys Ala	
	290 295 300
Thr Lys Ala Val Ser Ser Asn Gly Ile Val Arg Gln Leu	
305	310 315

<210> 5883

<211> 590

<212> PRT

<213> Enterobacter cloacae

<400> 5883

Thr	Pro	Arg	Lys	Asn	Ser	Arg	Trp	Ala	Glu	Gly	Phe	Ile	Asp	Val	Asn
1				5					10					15	
Thr	Met	Lys	Arg	Leu	Asn	Glu	Gln	Val	Asn	Val	Pro	Gly	Arg	Lys	Tyr
			20					25					30		
Thr	Val	Thr	Glu	Asn	His	Phe	Ser	Ser	Val	Thr	Gln	Ser	Asp	Asp	Glu
		35					40					45			
Ser	Glu	His	Arg	Tyr	Phe	Lys	Gln	Leu	Ser	Val	Val	Lys	Phe	Pro	Glu
	50					55					60				
Tyr	Val	Asn	Phe	Gly	Cys	Met	Tyr	Glu	Leu	Val	Val	Asn	Trp	Met	His
65				70						75				80	
Gly	Arg	Lys	Thr	Ile	Phe	Ser	Pro	Phe	Met	Ile	Thr	Gln	Thr	Val	Gln
			85						90					95	
Phe	Ala	Asp	Pro	Leu	Lys	Leu	Ser	Lys	Glu	Asn	Val	Arg	Tyr	Lys	Ala
			100					105						110	
Ile	Thr	Asn	Lys	Gln	Ala	Ser	Ile	Pro	Ser	Val	Val	Thr	Phe	Cys	Pro
		115					120					125			
Arg	Leu	Arg	Asp	Met	Asp	Asn	Asp	Tyr	Met	Ala	Val	Thr	Arg	Glu	Leu
	130					135					140				
Glu	Asp	Gly	Ala	Lys	Leu	Leu	Arg	Gly	Tyr	Leu	Thr	Phe	Thr	Val	Met
145				150						155				160	
Gly	Ser	Asn	Ala	Asn	Ser	Val	Gln	Thr	Ala	Ala	Asn	Asp	Leu	Lys	Ser
			165						170					175	
Phe	Tyr	Leu	Glu	Ser	Arg	Val	Lys	Val	Ala	Asp	Asp	Ser	Phe	Ile	Val
		180						185					190		
Phe	Pro	Ser	Phe	Met	Ser	Cys	Leu	Pro	Met	Cys	Asn	Asp	Pro	Lys	Thr
		195					200					205			
Ile	Phe	Asp	Leu	Asp	Arg	Ser	Glu	Val	Val	Ser	Asn	Thr	Gly	Ala	Ala
	210					215					220				
His	Met	Thr	Pro	Ile	Phe	Gly	Pro	Trp	Lys	Gly	Asn	Thr	Asp	Arg	Pro
225				230						235				240	
Val	Leu	Ser	Leu	Val	Ser	Arg	Glu	Gly	Gln	Leu	Met	Gly	Leu	Asp	Ile
			245						250					255	
Phe	Lys	Thr	Ser	Ala	Ser	Tyr	Asn	Met	Val	Ile	Gly	Ala	Thr	Ser	Gly
		260						265					270		
Ala	Gly	Lys	Ser	Phe	Trp	Thr	Ala	Tyr	Leu	Ile	Asn	Asn	Tyr	Leu	Gly
		275					280					285			
Ala	Gly	Pro	Arg	Ser	Asn	Asn	Leu	Val	His	Tyr	Arg	Ser	Thr	Phe	Lys
	290					295					300				
His	Phe	Leu	Glu	Asn	Glu	Tyr	Pro	Asp	Asp	Asp	Pro	Asp	Gly	Ala	Gln
305				310						315				320	
Val	Phe	Val	Val	Asp	Val	Gly	Arg	Ser	Tyr	Gln	Gly	Ile	Ala	Glu	Gln
			325						330					335	
Tyr	Thr	Asn	Ser	Gln	Phe	Ile	Asp	Phe	Gly	Lys	Thr	Pro	Asp	Phe	Thr
		340						345					350		
Leu	Asn	Pro	Phe	Ala	Phe	Leu	Thr	Asp	Ile	Thr	Val	Asn	Asp	Asp	Val
		355					360					365			
Phe	Asn	Glu	Ala	Pro	Glu	Phe	Thr	Gly	Glu	Ser	Thr	Ser	Asn	Asp	Ala
	370					375					380				
Glu	Lys	Asp	Lys	Val	Ala	Gln	Thr	Ile	Met	Val	Leu	Asn	Gln	Leu	Lys
385				390						395				400	
Ile	Met	Ala	Ser	Glu	Lys	Gly	Leu	Ile	Asp	Asp	Tyr	Gln	Gln	Ser	Val
			405						410					415	
Met	Leu	Gln	Leu	Ile	Ala	Glu	Glu	Tyr	Gln	Glu	Ser	Arg	Lys	Ser	Gly
		420						425					430		
Arg	Thr	Gly	Ser	Ile	Thr	Gly	Phe	Ala	Leu	Arg	Cys	Lys	Lys	His	Glu
		435					440					445			
Asp	Lys	Arg	Ile	Lys	Asp	Ile	Gly	Glu	Gln	Leu	Gly	Ala	Trp	Cys	Glu
	450					455					460				
Gly	Gly	Ile	Tyr	Gly	His	Arg	Phe	Thr	Asp	Thr	Leu	Pro	Pro	Ile	Asn
465				470						475				480	
Phe	Asp	Ser	Arg	Phe	Ile	Val	Leu	Glu	Leu	Glu	Glu	Leu	Lys	Gly	Thr

				485					490				495			
Pro	His	Leu	Gln	Thr	Val	Val	Leu	Met	Ser	Ile	Ile	Gln	Ala	Ala	Gln	
			500					505					510			
His	Ala	Met	Phe	Ile	Lys	Lys	Asp	Gly	Arg	Arg	Arg	Leu	Phe	Ile	Leu	
		515					520					525				
Asp	Glu	Ala	Trp	Glu	Tyr	Ile	Arg	Pro	Asp	Asn	Ser	Ser	Gly	Ala	Gly	
	530					535					540					
Asn	Gln	Ser	Asn	Gln	Phe	Phe	Ser	Ser	Phe	Leu	Glu	Ala	Ala	Trp	Arg	
545					550					555					560	
Met	Phe	Arg	Ile	Thr	Asn	Cys	Ala	Gly	Ile	Cys	Ile	Thr	His	Ser	Phe	
			565						570					575		
Glu	Lys	Leu	Phe	Thr	Ser	Ser	Val	Gly	Pro	Ala	Pro	Glu	Cys			
			580					585					590			

<210> 5884

<211> 516

<212> PRT

<213> Enterobacter cloacae

<400> 5884

Ser	Tyr	Thr	His	Ser	Gly	Gly	Pro	Ser	Gly	Pro	Val	Val	Lys	Thr	Gln	
1			5						10					15		
Ser	Ser	Gly	Glu	Tyr	Leu	Leu	Glu	Met	Thr	Gly	Val	Asn	Lys	Ser	Phe	
		20						25					30			
Pro	Gly	Val	Lys	Ala	Leu	Asp	Asn	Val	Asn	Leu	Lys	Val	Arg	Pro	His	
	35					40						45				
Ser	Ile	His	Ala	Leu	Met	Gly	Glu	Asn	Gly	Ala	Gly	Lys	Ser	Thr	Leu	
	50					55					60					
Leu	Lys	Cys	Leu	Phe	Gly	Ile	Tyr	Gln	Lys	Asp	Ser	Gly	Ser	Ile	Leu	
65					70					75					80	
Phe	Gln	Gly	Lys	Glu	Ile	Asp	Phe	His	Ser	Ala	Lys	Glu	Ala	Leu	Glu	
			85					90						95		
Asn	Gly	Ile	Ser	Met	Val	His	Gln	Glu	Leu	Asn	Leu	Val	Leu	Gln	Arg	
			100					105						110		
Ser	Val	Met	Asp	Asn	Met	Trp	Leu	Gly	Arg	Tyr	Pro	Thr	Lys	Gly	Val	
	115						120					125				
Phe	Val	Asp	Gln	Asp	Lys	Met	Tyr	Arg	Asp	Thr	Lys	Ala	Ile	Phe	Asp	
	130					135					140					
Glu	Leu	Asp	Ile	Asp	Ile	Asp	Pro	Arg	Ala	Arg	Val	Gly	Thr	Leu	Ser	
145					150					155					160	
Val	Ser	Gln	Met	Gln	Met	Ile	Glu	Ile	Ala	Lys	Ala	Phe	Ser	Tyr	Asp	
			165						170						175	
Ala	Lys	Ile	Val	Ile	Met	Asp	Glu	Pro	Thr	Ser	Ser	Leu	Thr	Glu	Lys	
			180					185						190		
Glu	Val	Asn	His	Leu	Phe	Thr	Ile	Ile	Arg	Lys	Leu	Lys	Asp	Arg	Gly	
		195					200					205				
Cys	Gly	Ile	Val	Tyr	Ile	Ser	His	Lys	Met	Glu	Glu	Ile	Phe	Gln	Leu	
	210					215					220					
Cys	Asp	Glu	Ile	Thr	Ile	Leu	Arg	Asp	Gly	Gln	Trp	Ile	Ala	Thr	Gln	
225					230					235					240	
Pro	Leu	Glu	Gly	Leu	Asp	Met	Asp	Lys	Ile	Ile	Ala	Met	Met	Val	Gly	
			245						250						255	
Arg	Ser	Leu	Asn	Gln	Arg	Phe	Pro	Asp	Lys	Glu	Asn	Lys	Pro	Gly	Glu	
			260					265						270		
Val	Ile	Leu	Glu	Val	Arg	Asn	Leu	Thr	Ser	Leu	Arg	Gln	Pro	Ser	Ile	
		275					280						285			
Arg	Asp	Val	Ser	Phe	Asp	Leu	His	Lys	Gly	Glu	Ile	Leu	Gly	Ile	Ala	
	290					295					300					
Gly	Leu	Val	Gly	Ala	Lys	Arg	Thr	Asp	Ile	Val	Glu	Thr	Leu	Phe	Gly	
305					310					315					320	
Ile	Arg	Glu	Lys	Ala	Glu	Gly	Thr	Ile	Thr	Leu	His	Gly	Lys	Lys	Ile	

				325					330				335				
Asn	Asn	His	Asn	Ala	Asn	Glu	Ala	Ile	Asn	Asn	Gly	Phe	Ala	Leu	Val		
			340					345					350				
Thr	Glu	Glu	Arg	Arg	Ser	Thr	Gly	Ile	Tyr	Ala	Tyr	Leu	Asp	Ile	Asn		
		355					360					365					
Phe	Asn	Ser	Leu	Ile	Ser	Asn	Ile	Arg	Asn	Tyr	Lys	Asn	Lys	Val	Gly		
	370					375					380						
Leu	Leu	Asp	Asn	Ser	Arg	Met	Lys	Ser	Asp	Thr	Gln	Trp	Val	Ile	Asp		
385					390					395					400		
Ser	Met	Arg	Val	Lys	Thr	Pro	Gly	His	Arg	Thr	Gln	Ile	Gly	Ser	Leu		
				405					410					415			
Ser	Gly	Gly	Asn	Gln	Gln	Lys	Val	Ile	Ile	Gly	Arg	Trp	Leu	Leu	Thr		
			420					425					430				
Gln	Pro	Glu	Ile	Leu	Met	Leu	Asp	Glu	Pro	Thr	Arg	Gly	Ile	Asp	Val		
		435					440					445					
Gly	Ala	Lys	Phe	Glu	Ile	Tyr	Gln	Leu	Ile	Ala	Glu	Leu	Ala	Lys	Lys		
	450					455					460						
Asp	Lys	Gly	Ile	Ile	Ile	Ile	Ser	Ser	Glu	Met	Pro	Glu	Leu	Leu	Gly		
465					470					475					480		
Ile	Thr	Asp	Arg	Ile	Leu	Val	Met	Ser	Asn	Gly	Leu	Val	Ala	Gly	Ile		
				485					490					495			
Val	Glu	Thr	Lys	Thr	Thr	Thr	Gln	Asn	Glu	Ile	Leu	Arg	Leu	Ala	Ser		
			500					505					510				
Leu	His	Leu															
		515															

<210> 5885

<211> 342

<212> PRT

<213> Enterobacter cloacae

<400> 5885

Asp	Gln	Gly	Leu	Leu	Met	Ser	Ala	Leu	Asn	Lys	Lys	Ser	Phe	Leu	Thr		
1			5					10						15			
Tyr	Leu	Lys	Glu	Gly	Gly	Ile	Tyr	Val	Val	Leu	Leu	Val	Leu	Leu	Ala		
			20					25					30				
Ile	Ile	Ile	Phe	Gln	Asp	Pro	Thr	Phe	Leu	Ser	Leu	Leu	Asn	Leu	Ser		
		35					40				45						
Asn	Ile	Leu	Thr	Gln	Ser	Ser	Val	Arg	Ile	Ile	Ile	Ala	Leu	Gly	Val		
	50				55					60							
Ala	Gly	Leu	Ile	Val	Thr	Gln	Gly	Thr	Asp	Leu	Ser	Ala	Gly	Arg	Gln		
65				70					75						80		
Val	Gly	Leu	Ala	Ala	Val	Ile	Ala	Ala	Thr	Leu	Leu	Gln	Ser	Met	Glu		
			85					90						95			
Asn	Ala	Asn	Lys	Val	Phe	Pro	Glu	Met	Ala	Thr	Met	Pro	Ile	Phe	Val		
		100					105					110					
Val	Ile	Leu	Ile	Val	Cys	Ala	Ile	Gly	Ala	Val	Ile	Gly	Leu	Ile	Asn		
	115					120					125						
Gly	Ile	Ile	Ile	Ala	Tyr	Leu	Asn	Val	Thr	Pro	Phe	Ile	Thr	Thr	Leu		
	130				135						140						
Gly	Thr	Met	Ile	Ile	Val	Tyr	Gly	Ile	Asn	Ser	Leu	Tyr	Tyr	Asp	Phe		
145				150					155					160			
Val	Gly	Ala	Ser	Pro	Ile	Ser	Gly	Phe	Asp	Ser	Gly	Phe	Ser	Thr	Phe		
			165					170						175			
Thr	Gln	Gly	Phe	Val	Ala	Leu	Gly	Ser	Phe	Arg	Leu	Ser	Tyr	Ile	Thr		
		180					185						190				
Phe	Tyr	Ala	Leu	Ile	Ala	Val	Ala	Phe	Val	Trp	Ile	Leu	Trp	Asn	Lys		
	195				200						205						
Thr	Arg	Phe	Gly	Lys	Asn	Ile	Phe	Ala	Ile	Gly	Gly	Asn	Pro	Glu	Ala		
	210				215						220						
Ala	Lys	Val	Ser	Gly	Val	Asn	Val	Ala	Leu	Asn	Leu	Leu	Met	Ile	Tyr		

225					230					235				240	
Ala	Leu	Ser	Gly	Val	Phe	Tyr	Ala	Phe	Gly	Gly	Met	Leu	Glu	Ala	Gly
				245					250					255	
Arg	Ile	Gly	Ser	Ala	Thr	Asn	Asn	Leu	Gly	Phe	Met	Tyr	Glu	Leu	Asp
			260					265					270		
Ala	Ile	Ala	Ala	Cys	Val	Val	Gly	Gly	Val	Ser	Phe	Ser	Gly	Gly	Val
		275					280					285			
Gly	Thr	Val	Leu	Gly	Val	Val	Thr	Gly	Val	Ile	Ile	Phe	Thr	Val	Ile
	290					295				300					
Asn	Tyr	Gly	Leu	Thr	Tyr	Ile	Gly	Val	Asn	Pro	Tyr	Trp	Gln	Tyr	Ile
305					310					315					320
Ile	Lys	Gly	Ala	Ile	Ile	Ile	Phe	Ala	Val	Ala	Leu	Asp	Ser	Leu	Lys
				325					330					335	
Tyr	Ala	Arg	Lys	Lys											
			340												

<210> 5886

<211> 292

<212> PRT

<213> Enterobacter cloacae

<400> 5886

Leu	Leu	Leu	Ile	Lys	Thr	Arg	Ser	Gln	Thr	Met	Ser	Lys	Val	Lys	Thr
1				5					10					15	
Ile	Thr	Arg	Glu	Ser	Trp	Ile	Leu	Ser	Thr	Phe	Pro	Glu	Trp	Gly	Ser
			20					25					30		
Trp	Leu	Asn	Glu	Glu	Ile	Glu	Gln	Glu	Gln	Val	Ala	Pro	Gly	Thr	Phe
		35				40					45				
Ala	Met	Trp	Trp	Leu	Gly	Cys	Thr	Gly	Ile	Trp	Leu	Lys	Ser	Glu	Gly
	50				55					60					
Gly	Ala	Asn	Ile	Cys	Val	Asp	Phe	Trp	Cys	Gly	Thr	Gly	Lys	Gln	Ser
65				70					75					80	
His	Gly	Asn	Pro	Leu	Met	Lys	Lys	Gly	His	Gln	Met	Gln	Arg	Met	Ala
				85				90					95		
Gly	Val	Glu	Lys	Leu	Gln	Pro	Asn	Leu	Arg	Thr	Thr	Pro	Phe	Val	Leu
			100					105					110		
Asp	Pro	Phe	Ala	Ile	Arg	Gln	Ile	Asp	Ala	Val	Leu	Ser	Thr	His	Asp
		115				120						125			
His	Asn	Asp	His	Ile	Asp	Val	Asn	Val	Ala	Ala	Ala	Val	Met	Gln	Asn
	130				135					140					
Cys	Ala	Asp	Asp	Val	Pro	Phe	Ile	Gly	Pro	Gln	Thr	Cys	Val	Asp	Leu
145				150					155					160	
Trp	Ile	Gly	Trp	Gly	Val	Pro	Lys	Glu	Arg	Cys	Ile	Val	Met	Lys	Pro
			165					170					175		
Gly	Asp	Val	Val	Lys	Ile	Lys	Asp	Ile	Glu	Ile	His	Ala	Leu	Asp	Ala
			180					185					190		
Phe	Asp	Arg	Thr	Ala	Leu	Ile	Thr	Leu	Pro	Ala	Asp	Gln	Lys	Ala	Ala
	195					200						205			
Gly	Val	Leu	Pro	Asp	Gly	Met	Asp	Glu	Arg	Ala	Val	Asn	Tyr	Leu	Phe
	210				215					220					
Lys	Thr	Pro	Gly	Gly	Ser	Leu	Tyr	His	Ser	Gly	Asp	Ser	His	Tyr	Ser
225				230					235					240	
Asn	Tyr	Tyr	Ala	Lys	His	Gly	Asn	Glu	His	Gln	Ile	Asp	Val	Ala	Leu
			245					250						255	
Gly	Ser	Tyr	Gly	Glu	Asn	Pro	Arg	Gly	Ile	Thr	Asp	Lys	Met	Thr	Ser
			260					265					270		
Ala	Asp	Met	Leu	Arg	Met	Ala	Glu	Ala	Leu	Lys	Thr	Gln	Met	Val	Asn
		275					280					285			
Pro	Val	Gln	Gln												
			290												

<210> 5887
 <211> 268
 <212> PRT
 <213> Enterobacter cloacae

<400> 5887
 His Gln Pro His Arg Asp Cys Pro Leu Cys Ser His Phe Leu Glu Arg
 1 5 10 15
 Val Met Glu Ile Leu Tyr Asn Val Phe Thr Val Phe Phe Asn Gln Val
 20 25 30
 Met Thr Asn Ala Pro Leu Leu Leu Gly Ile Val Thr Cys Leu Gly Tyr
 35 40 45
 Ile Leu Leu Arg Lys Ser Val Ser Val Ile Ile Lys Gly Thr Ile Lys
 50 55 60
 Thr Ile Ile Gly Phe Met Leu Leu Gln Ala Gly Ser Gly Ile Leu Thr
 65 70 75 80
 Ser Thr Phe Lys Pro Val Val Ala Lys Met Ser Glu Val Tyr Gly Ile
 85 90 95
 Asn Gly Ala Ile Ser Asp Thr Tyr Ala Ser Met Met Ala Thr Ile Asp
 100 105 110
 Arg Met Gly Asp Ala Tyr Ser Trp Val Gly Tyr Ala Val Leu Leu Ala
 115 120 125
 Leu Ala Leu Asn Ile Ile Tyr Val Leu Leu Arg Arg Ile Thr Gly Ile
 130 135 140
 Arg Thr Ile Met Leu Thr Gly His Ile Met Phe Gln Gln Ala Gly Leu
 145 150 155 160
 Ile Ala Val Ser Leu Tyr Ile Phe Gly Tyr Pro Met Trp Thr Thr Val
 165 170 175
 Ile Cys Thr Ala Val Leu Val Ser Leu Tyr Trp Gly Ile Thr Ser Asn
 180 185 190
 Met Met Tyr Lys Pro Thr Gln Asp Val Thr Asp Gly Cys Gly Phe Ser
 195 200 205
 Ile Gly His Gln Gln Gln Phe Ala Ser Trp Ile Ala Tyr Lys Val Ala
 210 215 220
 Pro Tyr Leu Gly Lys Lys Glu Glu Ser Val Glu Asp Leu Lys Leu Pro
 225 230 235 240
 Gly Trp Leu Asn Ile Phe His Asp Asn Ile Val Ser Thr Ala Ile Val
 245 250 255
 Met Thr Ile Phe Phe Gly Ala Met Ser Ser His Thr
 260 265

<210> 5888
 <211> 130
 <212> PRT
 <213> Enterobacter cloacae

<220>
 <221> UNSURE
 <222> (130)

<400> 5888
 Thr Arg Arg Ser Ser Leu Pro Arg Gly His Asp Met Arg Gly Asp Cys
 1 5 10 15
 Arg Arg Cys Gln Pro Ala Ser Val Arg Gly Phe Ile Thr Cys Thr Ser
 20 25 30
 Glu Asn Ala Asp Pro Arg Ala Asp Arg Glu Glu Pro Met Ile Pro Leu
 35 40 45
 Pro Ser Gly Thr Arg Ile Trp Leu Val Ala Gly Val Thr Asp Met Arg
 50 55 60
 Lys Ser Phe Asn Gly Leu Gly Glu Leu Val Gln His Val Leu Asp Asp
 65 70 75 80

Asn Pro Phe Ser Gly His Leu Phe Ile Phe Arg Gly Arg Lys Gly Asp
 85 90 95
 Thr Val Arg Ile Leu Trp Ala Asp Ala Asp Gly Leu Cys Leu Phe Thr
 100 105 110
 Arg Pro Leu Glu Glu Gly Leu Ser Thr Arg Arg Asp Gly Arg Glu Lys
 115 120 125
 Val Xaa
 130

<210> 5889

<211> 140

<212> PRT

<213> Enterobacter cloacae

<400> 5889

Trp Thr Leu Ser Met Ser Asn Thr Leu Gln Pro Arg Arg Ala Arg Ala
 1 5 10 15
 Ser Tyr Ser Met Asp Phe Lys Leu Ala Leu Val Glu Lys Ser Tyr Gln
 20 25 30
 Pro Gly Ala Cys Val Ala Arg Leu Ala Arg Asp Asn Gly Ile Asn Asp
 35 40 45
 Asn Leu Leu Phe Thr Trp Arg Gln Arg Tyr Arg His Leu Leu Pro Asp
 50 55 60
 Glu Ile Gln Arg Ser Ile Arg Glu Gln Asp Ser Val Ile Pro Val Val
 65 70 75 80
 Leu Pro Asp Met Ala Leu Ser His His Ala Glu Pro His Tyr Glu Pro
 85 90 95
 Ala Ala Pro Ala Cys Arg Glu Ala Met Thr Cys Glu Val Thr Val Gly
 100 105 110
 Gly Ala Ser Leu Arg Leu Ser Gly Asp Leu Ser Pro Ala Leu Leu Lys
 115 120 125
 Thr Leu Ile Arg Glu Leu Thr Gly Arg Ser Arg
 130 135 140

<210> 5890

<211> 211

<212> PRT

<213> Enterobacter cloacae

<400> 5890

Ser Gly Ala Val Met Met Asn Lys Leu Gln Glu Arg Tyr Ala Arg Ile
 1 5 10 15
 Ile Ala Ile Met Asn Asn Lys Gly Gly Pro Gly Lys Thr Ser Ser Ala
 20 25 30
 Thr Asn Leu Ala Val His Tyr Ala Arg Ser Gly Lys Arg Thr Leu Leu
 35 40 45
 Ile Asp Ser Asp Gln Gln Ala Asn Thr Thr Glu Val Thr Ala Asn Gly
 50 55 60
 Lys Lys Tyr Tyr Ser Met Tyr Gly Pro Thr Ile Cys Asp Leu Tyr Ser
 65 70 75 80
 Asn Ser Arg Phe Asp Ile Arg Asp Val Ile Ile Pro Ala Met Ala Gly
 85 90 95
 Asp Ala Pro Ile Pro Asn Leu Asp Leu Ile Pro Ser Asp Pro Thr Phe
 100 105 110
 Glu Lys Ile Ile Glu Gln Thr Leu Thr Arg Ser His Arg Glu Lys Ile
 115 120 125
 Leu Gly Arg His Leu Glu Lys Val Arg Thr Glu Tyr Asp Tyr Ile Ile
 130 135 140
 Ile Asp Cys Ala Pro Gly Leu Asn Ile Ala Thr Gly Asn Ala Ile Phe
 145 150 155 160
 Ile Ala Asp His Val Leu Val Pro Val Asp Gly Gly Ser Phe Ser Leu

Ser Gly Leu Glu 165 Ile Met Leu Asp Tyr 170 Met Asp Glu Ile Ser 175 Glu Glu
 180
 Asp Tyr Ala Arg Phe Ser Val Phe Thr Thr Glu Arg Asp Gly Ser Ala
 195 200 205
 Leu Glu Tyr
 210

<210> 5891

<211> 404

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (28)

<400> 5891

Thr Cys Phe Ile Leu Gly Ala Asn Met Asp Arg Val Ser His Phe Val
 1 5 10 15
 Leu Ala Leu Val Val Thr Ala Leu Ala Leu Xaa Val Ser Thr Asp
 20 25 30
 Arg Lys Lys Ile Arg Met Arg Tyr Val Val Gln Leu Leu Val Ile Glu
 35 40 45
 Val Leu Leu Ala Trp Phe Phe Leu Asn Ser Asn Val Gly Leu Gly Phe
 50 55 60
 Val Lys Gly Phe Ser Glu Met Phe Glu Lys Leu Leu Gly Phe Ala Asn
 65 70 75 80
 Glu Gly Thr Asn Phe Val Phe Gly Ser Met Asn Asp Gln Gly Leu Ala
 85 90 95
 Phe Phe Phe Leu Lys Val Leu Cys Pro Ile Val Phe Ile Ser Ala Leu
 100 105 110
 Ile Gly Ile Leu Gln His Ile Arg Val Leu Pro Val Val Ile Arg Ala
 115 120 125
 Ile Gly Phe Leu Leu Ser Lys Val Asn Gly Met Gly Lys Leu Glu Ser
 130 135 140
 Phe Asn Ala Val Ser Ser Leu Ile Leu Gly Gln Ser Glu Asn Phe Ile
 145 150 155 160
 Ala Tyr Lys Asp Ile Leu Gly Lys Met Ser Arg Asn Arg Met Tyr Thr
 165 170 175
 Met Ala Ala Thr Ala Met Ser Thr Val Ser Met Ser Ile Val Gly Ala
 180 185 190
 Tyr Met Thr Met Leu Glu Pro Lys Tyr Val Val Ala Ala Leu Val Leu
 195 200 205
 Asn Met Phe Ser Thr Phe Ile Val Leu Ser Leu Ile Asn Pro Tyr Arg
 210 215 220
 Val Asp Ala Ser Glu Glu Asn Ile Gln Met Ser Asn Leu His Glu Gly
 225 230 235 240
 Gln Ser Phe Phe Glu Met Leu Gly Glu Tyr Ile Leu Ala Gly Phe Lys
 245 250 255
 Val Ala Ile Ile Val Ala Ala Met Leu Ile Gly Phe Ile Ala Leu Ile
 260 265 270
 Ala Ala Leu Asn Ala Leu Phe Ala Ala Val Leu Gly Ile Ser Phe Gln
 275 280 285
 Gly Ile Leu Gly Tyr Ile Phe Tyr Pro Val Ala Trp Val Met Gly Val
 290 295 300
 Pro Ala His Glu Ala Leu Gln Val Gly Ser Ile Met Ala Thr Lys Leu
 305 310 315 320
 Val Ser Asn Glu Phe Val Ala Met Met Asp Leu Gln Lys Ile Ala Ser
 325 330 335
 Thr Leu Ser Pro Arg Ala Glu Gly Ile Leu Ser Val Phe Leu Val Ser

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<210> 5892
<211> 217
<212> PRT
<213> Enterobacter cloacae
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<210> 5893
<211> 291
<212> PRT
<213> Enterobacter cloacae
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<400> 5893															
Tyr	Met	Asp	Gln	Ala	Gly	Ile	Ile	Arg	Asp	Leu	Leu	Thr	Trp	Leu	Glu
1				5					10					15	
Gly	His	Leu	Asp	Gln	Pro	Leu	Ser	Leu	Asp	Asn	Val	Ala	Ala	Lys	Ala
			20					25					30		
Gly	Tyr	Ser	Lys	Trp	His	Leu	Gln	Arg	Met	Phe	Lys	Asp	Val	Thr	Gly
		35					40					45			
His	Ala	Ile	Gly	Ala	Tyr	Ile	Arg	Ala	Arg	Arg	Leu	Ser	Lys	Ser	Ala
	50					55					60				
Val	Ala	Leu	Arg	Leu	Thr	Ala	Arg	Pro	Ile	Leu	Asp	Ile	Ala	Leu	Gln
65					70					75					80

Tyr Arg Phe Asp Ser Gln Gln Thr Phe Thr Arg Ala Phe Lys Lys Gln
 85 90 95
 Phe Ser Leu Thr Pro Ala Leu Tyr Arg Arg Ser Pro Asp Trp Ser Ser
 100 105 110
 Phe Gly Met Arg Pro Pro Leu Arg Leu Gly Glu Phe Ala Met Pro Lys
 115 120 125
 Tyr Glu Ile Ile Thr Leu Pro Glu Thr His Leu Val Gly Thr Thr Gln
 130 135 140
 Ser Tyr Ser Cys Ser Leu Glu Gln Ile Ser Glu Phe Arg His Gln Met
 145 150 155 160
 Arg Val Gln Phe Trp Arg Glu Phe Leu Ser His Ala Pro Ala Ile Pro
 165 170 175
 Pro Ile Leu Tyr Gly Leu Asn Glu Thr His Pro Ser Gln Glu Lys Asp
 180 185 190
 Asp Glu Gln Glu Val Phe Tyr Thr Thr Ala Leu Thr Pro Asp Met Ala
 195 200 205
 Asn Gly Tyr Ile His Gly Ser Lys Pro Val Val Leu Glu Gly Gly Glu
 210 215 220
 Tyr Val Met Phe Ser Tyr Glu Gly Leu Gly Thr Gly Val Gln Glu Phe
 225 230 235 240
 Ile Leu Thr Val Tyr Gly Thr Cys Met Pro Met Leu Asn Leu Asn Arg
 245 250 255
 Arg Lys Gly Gln Asp Ile Glu Arg Tyr Tyr Pro Ala Gln Asp Ala Lys
 260 265 270
 Pro Glu Glu Gly Pro Ile Asn Leu Arg Met Glu Phe Leu Ile Pro Val
 275 280 285
 Arg Arg
 290

<210> 5894

<211> 67

<212> PRT

<213> Enterobacter cloacae

<400> 5894

Leu Met Glu Ser Glu Ala Arg Arg Phe Ile Ala Leu Val Asp Glu Phe
 1 5 10 15
 Tyr Glu Arg His Val Lys Leu Val Val Ser Ala Glu Val Pro Leu Tyr
 20 25 30
 Glu Ile Tyr Gln Gly Glu Arg Leu Lys Ser Glu Phe Gln Arg Cys Leu
 35 40 45
 Ser Arg Leu Gln Glu Met Gln Ser Glu Glu Tyr Leu Lys Arg Glu His
 50 55 60
 Met Pro
 65

<210> 5895

<211> 144

<212> PRT

<213> Enterobacter cloacae

<400> 5895

Gly Pro Pro Thr Arg Pro Val Lys Arg Pro Lys Leu Asp Glu Asp Glu
 1 5 10 15
 Ile Gly Gln Arg Leu Leu Ser Ile Pro Cys Val Gly Thr Leu Thr Ala
 20 25 30
 Ser Thr Ile Ser Thr Glu Ile Gly Asp Gly Lys Gln Tyr Ala Ser Ser
 35 40 45
 Arg Asp Phe Ala Ala Ala Thr Gly Leu Val Pro Arg Gln Tyr Ser Thr
 50 55 60
 Gly Gly Arg Thr Thr Leu Leu Gly Ile Ser Lys Arg Gly Asn Lys Lys

65					70					75				80	
Ile	Arg	Thr	Leu	Leu	Val	Gln	Cys	Ala	Arg	Val	Phe	Ile	Gln	Lys	Leu
				85					90					95	
Glu	His	Gln	Ser	Gly	Lys	Leu	Ala	Asp	Trp	Val	Arg	Asp	Leu	Leu	Cys
			100					105					110		
Arg	Lys	Ser	Asn	Phe	Val	Val	Thr	Cys	Ala	Leu	Ala	Asn	Lys	Leu	Ala
		115					120					125			
Arg	Ile	Ala	Trp	Ala	Leu	Thr	Ala	Arg	Gln	Gln	Thr	Tyr	Val	Ala	
	130					135					140				

<210> 5896

<211> 294

<212> PRT

<213> Enterobacter cloacae

<400> 5896

Lys	Gly	Leu	Leu	Val	Met	Gln	Glu	Gln	Glu	Ile	Trp	Thr	Pro	Gln	Lys
1				5					10					15	
Ala	Ala	Ile	Arg	Leu	Thr	Lys	Ile	Cys	Asp	Thr	Phe	Ser	Glu	Ile	His
			20					25					30		
Gly	Thr	Glu	Arg	Phe	Pro	Val	Asn	Val	Glu	Glu	Leu	Ser	Leu	Glu	Ala
		35					40					45			
Ala	Glu	Leu	Phe	Lys	Trp	Ala	Asp	Pro	Ile	Val	Lys	Ile	Glu	Pro	Val
	50					55					60				
Asp	Ile	Lys	Gly	Phe	Asp	Gly	Ala	Leu	Met	Ala	Asn	Glu	Ser	Arg	Ser
65				70					75					80	
Arg	Trp	Met	Leu	Leu	Tyr	Asn	Asn	Gly	Leu	Thr	Ser	Pro	Gly	Arg	Ile
			85					90					95		
Arg	Phe	Thr	Gln	Ala	His	Glu	Leu	Gly	His	Tyr	Ile	Leu	His	Arg	Leu
			100					105					110		
Ile	Arg	Asp	Glu	Phe	Arg	Cys	Ser	Ser	Asp	Asp	Met	Leu	Ser	Trp	Glu
		115					120					125			
Asp	Lys	Asn	Ile	Glu	Ser	Glu	Ala	Asp	Leu	Phe	Ala	Ser	Tyr	Leu	Leu
	130					135					140				
Met	Pro	Phe	Asn	Asp	Phe	Arg	Lys	Gln	Leu	Thr	Pro	Asp	Val	Asp	Ile
145				150					155					160	
Asp	Val	Leu	Ser	Gln	Tyr	Ala	Ile	Arg	Tyr	Gly	Val	Ser	Leu	Thr	Ala
			165					170					175		
Ala	Ala	Leu	Lys	Trp	Leu	Glu	Cys	Thr	Glu	Glu	Asn	Ala	Val	Phe	Ile
		180						185					190		
Leu	Ser	Arg	Asp	Gly	Tyr	Met	Lys	Trp	Ala	Phe	Ser	Ser	Pro	Ala	Ala
		195					200					205			
Arg	His	Asn	Gly	Ala	Phe	Phe	Arg	Thr	Gln	Arg	Asn	Val	Val	Ser	Ile
	210					215					220				
Pro	Glu	Gly	Ser	Ile	Ala	Ala	Asn	Gln	Asn	Ile	Ser	Met	Glu	Arg	Ala
225				230					235					240	
Gly	Met	Lys	Ile	Pro	Ala	Ser	Ile	Trp	Phe	Pro	His	Ala	Asp	Lys	Asp
			245					250					255		
Ala	Ser	Val	Arg	Glu	Met	Lys	Ile	His	Ser	Glu	Gln	Tyr	Glu	Tyr	Val
		260					265						270		
Ile	Thr	Leu	Leu	Ile	Leu	Ser	Arg	Lys	Thr	Thr	Val	Trp	Pro	Pro	Phe
		275					280					285			
His	Gly	Glu	Asp	Glu											
	290														

<210> 5897

<211> 98

<212> PRT

<213> Enterobacter cloacae

<400> 5897

Cys Leu His Lys Pro His Glu Asp Ile Pro Met Lys Lys Arg Phe Ser
 1 5 10 15
 Asp Glu Gln Ile Ser Ile Leu Arg Glu Ala Glu Ala Gly Val Pro
 20 25 30
 Ala Arg Glu Leu Cys Arg Lys His Ala Ile Ser Asp Ala Thr Phe Tyr
 35 40 45
 Ile Trp Arg Lys Lys Tyr Gly Gly Met Glu Val Pro Glu Val Lys Arg
 50 55 60
 Leu Lys Ser Leu Glu Glu Glu Asn Ala Arg Leu Lys Lys Leu Leu Ala
 65 70 75 80
 Glu Ala Met Leu Asp Lys Glu Ala Leu Gln Val Ala Leu Gly Arg Lys
 85 90 95
 Tyr

<210> 5898

<211> 62

<212> PRT

<213> Enterobacter cloacae

<400> 5898

Arg Gly Ala Ser Gly Gly Ser Trp Ala Lys Val Leu Thr Thr Asp Gln
 1 5 10 15
 Lys Arg Glu Thr Val Met Leu Met Cys Asp Ala Asn Gly Leu Ser Gln
 20 25 30
 Arg Arg Ala Cys Arg Leu Thr Gly Phe Ile Leu Ser Thr Cys Arg Tyr
 35 40 45
 Glu Ala Gln Arg Pro Ala Ala Asp Ala His Leu Ser Gly Arg
 50 55 60

<210> 5899

<211> 171

<212> PRT

<213> Enterobacter cloacae

<400> 5899

Asn Leu Asn Phe Cys His Ile Ser Leu Thr Val Leu Ser Ala Met Asn
 1 5 10 15
 Ile Thr Glu Leu Val Phe Ile Asp Asp Tyr Asn His Val Val Ile
 20 25 30
 Met Ser Asp Val Val Gln Arg Leu His Leu Tyr Arg Gln Leu His Tyr
 35 40 45
 Ala Ser Thr Glu Ala Gly Gly Thr Leu Ile Gly Glu Arg Arg Gly Lys
 50 55 60
 His Ile Val Ile Thr His Ile Ser Glu Pro Gly Ser Gly Asp Val Arg
 65 70 75 80
 Ser Arg Thr Arg Ile Glu Arg Lys Gly Glu His His Gln Gln Lys Val
 85 90 95
 Asp Asp Leu Phe Gln Gln Ser Asp Gly Ser Leu Val Tyr Leu Gly Glu
 100 105 110
 Trp His Thr His Pro Glu Asp Phe Pro Gln Pro Ser Ser Thr Asp Met
 115 120 125
 Arg Ser Trp Arg Thr Gly Leu Lys Ala Thr Glu Pro Met Val Leu Leu
 130 135 140
 Ile Met Gly Arg Lys Gln Ala Trp Cys Gly Lys Lys His Gly Asn Val
 145 150 155 160
 Ile Lys Lys Leu Glu Lys Asn Asn His
 165 170

<210> 5900

<211> 374

<212> PRT

<213> Enterobacter cloacae

<400> 5900

```

Ile Met Val Cys His Met Thr Pro Pro Val Ala Leu Phe Lys Gly Cys
1      5      10      15
Val Met Gln Asp Leu His Ser Lys Asp Ser Val Ile Asn His Tyr Ala
20      25      30
Asp Arg Tyr Gln Cys Tyr Met Pro Ile Asp Val Arg Asn Gly Leu Arg
35      40      45
Ser Asn Ser Ile Asp Ala Ser Asn Ser Ser Leu Pro Trp Asp Val Thr
50      55      60
Leu Pro Leu Val Thr Thr Glu Asp Val Ser Arg Asp Lys Ala Leu Gly
65      70      75      80
Ala Phe Val Gly Leu Ala Val Gly Asp Ala Val Gly Thr Thr Leu Glu
85      90      95
Phe Lys Lys Arg Asp Ser Glu His Val Ala Asp Met Ile Gly Gly Gly
100     105     110
Pro Phe Gln Leu Lys Pro Gly Glu Trp Thr Asp Asp Thr Ser Met Ala
115     120     125
Leu Cys Leu Ala Glu Thr Tyr Leu Ser Glu Asn Arg Met His Thr Asp
130     135     140
Val Leu Arg Lys Tyr Leu Leu Lys Trp Tyr Leu Asp Gly Glu Asn Ser
145     150     155     160
Ser Asn Gly Arg Cys Phe Asp Ile Gly Asn Thr Thr Arg Phe Ala Leu
165     170     175
Glu Gln Tyr Met Arg Val Gly Pro Ser Trp Tyr Gly Asn Thr Glu Lys
180     185     190
His Thr Ala Gly Asn Ala Gly Val Ile Arg Gln Ala Pro Val Ser Ile
195     200     205
Phe Arg Arg Lys Ser Leu Arg Ala Ile Tyr Phe Glu Ser Gln Ala Gln
210     215     220
Ser Arg Ala Thr His Gly Ala Val Glu Ser Ile Asn Ala Cys Gln Phe
225     230     235     240
Leu Gly Leu Val Leu His Tyr Leu Ile Asn Gly Tyr Gln Lys Glu Gly
245     250     255
Ala Phe Ser Pro His Val Phe Pro Leu Cys Ala Arg Val Met Ile Ile
260     265     270
Asn Ala Gly Glu Tyr Lys Gln Lys Thr Arg Asp Gln Ile Arg Ser Ser
275     280     285
Gly Tyr Val Ile Asp Thr Leu Glu Ala Ala Met Trp Ser Val Trp Asn
290     295     300
Thr Asp Asn Phe Arg Asp Ala Ile Leu Leu Ala Ala Asn Leu Ala Asp
305     310     315     320
Asp Ala Asp Ser Val Ala Ala Thr Ala Gly Gln Ile Ala Gly Ala Leu
325     330     335
Tyr Gly Tyr Ser Ala Ile Pro Gln Asp Trp Lys Asp Lys Leu Val Gln
340     345     350
His Glu Arg Ile Ala Thr Met Ala Gly Lys Leu Phe Asp Arg Ala Pro
355     360     365
Glu Asp Asn Phe Leu
370

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<210> 5901

<211> 83

<212> PRT

<213> Enterobacter cloacae

<400> 5901

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Phe Asp Thr Ser Gln Val Arg Met Arg Thr Met Lys Lys Trp Ala Val
1      5      10      15

```

Ile Ile Ser Ala Val Gly Leu Ala Phe Ala Val Ser Gly Cys Ser Ser
 20 25 30
 Asp Tyr Val Met Ser Thr Lys Asp Gly Arg Met Ile Leu Thr Asp Gly
 35 40 45
 Lys Pro Glu Val Asp Asp Asp Thr Gly Leu Val Ser Tyr Arg Asp Arg
 50 55 60
 Glu Gly Asn Gln Met Gln Ile Asn Arg Asp Glu Val Ser Gln Ile Ile
 65 70 75 80
 Glu Arg

<210> 5902

<211> 153

<212> PRT

<213> Enterobacter cloacae

<400> 5902

Lys Arg Lys Pro Ala Met His Tyr His Arg Ile Pro His Ser Ala Leu
 1 5 10 15
 Glu Ile Ser Gln Leu Gly Leu Gly Thr Met Thr Phe Gly Glu Gln Asn
 20 25 30
 Ser Glu Ala Asp Ala His Ala Gln Leu Asp Tyr Ala Val Ser Gln Gly
 35 40 45
 Ile Asn Leu Ile Asp Val Ala Glu Met Tyr Pro Val Pro Arg Pro
 50 55 60
 Glu Thr Gln Gly Leu Thr Glu Thr Tyr Val Gly Asn Trp Leu Ala Lys
 65 70 75 80
 Arg Gly Asn Arg Glu Lys Leu Val Ile Ala Ser Lys Val Ser Gly Pro
 85 90 95
 Ser Arg Asn Asn Asp Ala Gly Ile Arg Pro Asn Gln Ile Leu Asp Arg
 100 105 110
 Lys Asn Ile Arg Ala Ala Leu Asp Ala Ser Leu Lys Arg Leu Gln Thr
 115 120 125
 Asp Tyr Leu Asp Leu Tyr His Val His Trp Pro Gln Arg Pro Thr Asn
 130 135 140
 Cys Phe Gly Lys Leu Gly Tyr Thr
 145 150

<210> 5903

<211> 108

<212> PRT

<213> Enterobacter cloacae

<400> 5903

Asn Glu Ser Ala Pro Ala Val Thr Leu Leu Glu Thr Leu Glu Thr Leu
 1 5 10 15
 Thr Glu Cys Gln Arg Ala Gly Lys Ile Arg Tyr Ile Gly Val Ser Asn
 20 25 30
 Glu Thr Ala Phe Gly Val Met Arg Tyr Leu His Leu Ala Asp Lys His
 35 40 45
 Asp Leu Pro Arg Ile Val Thr Ile Gln Asn Pro Tyr Ser Leu Leu Lys
 50 55 60
 Arg Ser Tyr Glu Val Gly Leu Ala Glu Val Thr Gln Tyr Glu Glu Val
 65 70 75 80
 Glu Leu Leu Pro Gln Leu Leu Ser Gly Leu Arg Tyr Pro Asp Gly Gln
 85 90 95
 Ile Pro Glu Arg Arg Glu Thr Gly Trp Arg Ala
 100 105

<210> 5904

<211> 243

<212> PRT

<213> Enterobacter cloacae

<400> 5904

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Asn Ile Ser Ser Phe Phe Asn Gln Lys Val Val Ser Met His Ser Leu
1      5      10      15
Ala Pro Leu Leu Ser Pro Pro Val Ser Glu Ala Gln Leu Leu Gln Gln
      20      25      30
Ala Gln Arg Leu Ala Gly Tyr Ser Leu Gly Glu Leu Ala Val Met Ala
      35      40      45
Gly Leu Thr Ile Pro Asn Asp Leu Lys Arg Asp Lys Gly Trp Ile Gly
      50      55      60
Val Leu Leu Glu Arg Trp Leu Gly Ala Ser Ala Gly Ser Lys Pro Glu
65      70      75      80
Gln Asp Phe Ala Ala Leu Gly Val Glu Leu Lys Thr Ile Pro Ile Asp
      85      90      95
Ser Gln Gly Arg Pro Leu Glu Thr Thr Phe Val Cys Val Ala Pro Leu
      100     105     110
Thr Gly Asn Ser Gly Val Thr Trp Glu Thr Ser His Val Arg His Lys
      115     120     125
Leu Lys Arg Val Leu Trp Val Pro Val Glu Gly Asp Arg Gln Ile Pro
      130     135     140
Leu Ala Glu Arg Arg Val Gly Ala Pro Leu Leu Trp Ser Pro Asn Asp
145     150     155     160
Glu Glu Glu Arg Leu Leu Ser Gln Asp Trp Glu Glu Leu Met Asp Met
      165     170     175
Ile Val Leu Gly Gln Val Glu Arg Ile Thr Ala Arg His Gly Glu Met
      180     185     190
Leu Gln Leu Arg Pro Lys Ala Ala Asn Ser Lys Ala Leu Thr Glu Ala
      195     200     205
Val Cys Ala Gln Gly Glu Pro Ile Leu Thr Leu Pro Arg Gly Phe Tyr
      210     215     220
Leu Lys Lys Asn Phe Thr Gly Ala Leu Leu Ala Arg His Phe Leu Leu
225     230     235     240
Lys Thr

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<210> 5905

<211> 125

<212> PRT

<213> Enterobacter cloacae

<400> 5905

```

Arg Ser Thr Lys Arg Trp Ser Cys Ser Pro Asn Ser Cys Leu Gly Phe
1      5      10      15
Gly Thr Leu Thr Gly Lys Tyr Leu Asn Gly Ala Lys Pro Ala Gly Ala
      20      25      30
Arg Asn Thr Leu Phe Ser Arg Phe Thr Arg Tyr Ser Gly Glu Gln Thr
      35      40      45
Gln Lys Ala Val Ala Ala Tyr Val Asp Ile Ala Lys Arg His Gly Leu
      50      55      60
Asp Pro Ala Gln Met Ala Leu Ala Phe Val Arg Arg Gln Pro Phe Val
65      70      75      80
Ala Ser Thr Leu Leu Gly Ala Thr Thr Met Asp Gln Leu Lys Thr Asn
      85      90      95
Ile Glu Ser Phe Asn Leu Asn Leu Ser Glu Glu Val Leu Ala Glu Ile
      100     105     110
Glu Ala Val His Gln Val Tyr Thr Tyr Pro Ala Pro
      115     120     125

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<210> 5906

<211> 118
 <212> PRT
 <213> Enterobacter cloacae

<400> 5906

Thr	Val	Ala	Arg	Cys	Met	Pro	Ala	Gly	Ile	Val	Ile	Gly	Val	Gly	Val
1				5					10					15	
Leu	Phe	Phe	Ser	Leu	Gln	His	Ala	Leu	Leu	Pro	Ala	Tyr	Ala	Leu	Leu
			20					25					30		
Leu	Leu	Ile	Gly	Met	Leu	Gly	Gly	Phe	Phe	Val	Val	Pro	Leu	Asn	Ala
		35				40						45			
Leu	Leu	Gln	Glu	Arg	Gly	Lys	Gln	Thr	Val	Gly	Ala	Gly	Asn	Ala	Ile
	50				55					60					
Ala	Val	Gln	Asn	Leu	Gly	Glu	Asn	Met	Ala	Met	Leu	Leu	Met	Leu	Gly
65					70				75						80
Ile	Tyr	Ser	Leu	Ala	Val	Lys	Ala	Gly	Ala	Pro	Val	Val	Ala	Ile	Gly
			85					90						95	
Val	Gly	Phe	Gly	Ala	Leu	Phe	Ala	Leu	Ala	Ile	Ser	Gly	Leu	Trp	Val
			100					105					110		
Trp	Gln	Arg	Arg	Arg											
			115												

<210> 5907
 <211> 305
 <212> PRT
 <213> Enterobacter cloacae

<400> 5907

Ser	Pro	Gly	Gly	Gly	Met	Met	Arg	Met	Lys	Arg	Asn	Leu	Lys	Ala	Ile
1				5					10					15	
Pro	Val	Leu	Val	Ala	Gly	Leu	Phe	Thr	Ser	Gln	Leu	Ser	Ile	Ala	Ala
			20					25					30		
Gly	Ser	Val	Ser	Ala	Asp	Pro	His	Ala	Gly	His	Asp	Met	Ser	Ala	Met
		35				40						45			
Gln	Met	Pro	Ala	Asp	Glu	Asn	Phe	Thr	Glu	Met	Thr	Ser	Met	Glu	Pro
	50				55					60					
Ile	Val	Thr	Glu	Ser	Arg	Thr	Pro	Ile	Pro	Pro	Val	Thr	Asp	Ala	Asp
65					70				75						80
Arg	Lys	Ala	Ala	Phe	Gly	Asn	Leu	Gln	Gly	His	Ala	Ile	His	Asp	Ser
			85					90						95	
Ala	Ile	Asn	Tyr	Leu	Val	Leu	Leu	Asp	Gln	Leu	Glu	Trp	Gln	Arg	Ser
			100					105					110		
Asp	Asn	Thr	Asn	Asn	Phe	Ser	Trp	Ser	Val	Asn	Ser	Trp	Ile	Gly	Gly
		115					120					125			
Asp	Thr	Asp	Arg	Ile	Trp	Leu	Lys	Ser	Glu	Gly	Glu	Arg	Ser	Asn	Gly
	130					135					140				
Glu	Thr	Glu	Ala	Ala	Glu	Ala	Gln	Leu	Leu	Trp	Gly	His	Ala	Val	Gly
145					150					155					160
Pro	Trp	Trp	Asp	Leu	Val	Ala	Gly	Val	Arg	Gln	Asp	Phe	Arg	Pro	Ala
			165					170						175	
Ser	Ala	Arg	Thr	Trp	Ala	Ala	Val	Gly	Phe	Gln	Gly	Leu	Ala	Leu	Tyr
			180					185					190		
Asn	Phe	Glu	Ser	Glu	Ile	Thr	Gly	Phe	Val	Ser	Asn	Gly	Gly	Lys	Ala
		195					200					205			
Ala	Leu	Arg	Leu	Gly	Gly	Glu	Tyr	Asp	Val	Leu	Leu	Thr	Asn	Arg	Leu
	210					215						220			
Ile	Leu	Gln	Pro	Ser	Tyr	Glu	Val	Asn	Phe	Tyr	Ser	Gln	Asp	Asp	Glu
225					230					235					240
Ser	Arg	Gly	Arg	Gly	Arg	Gly	Leu	Thr	Asp	Thr	Glu	Leu	Gly	Leu	Arg
			245					250						255	
Leu	Arg	Tyr	Glu	Ile	Arg	Arg	Glu	Phe	Ala	Pro	Tyr	Ile	Gly	Val	Ser

305

<400> 5908 .

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<210> 5909
<211> 491
<212> PRT
<213> Enterobacter cloacae
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Lys	His	Phe	Met	Gly	Val	Gln	Pro	Asp	Asp	Thr	Tyr	Val	Tyr	Thr	Phe
1				5					10					15	
Lys	Val	Lys	Gln	Asn	Gly	Thr	Tyr	Trp	Tyr	His	Ser	His	Ser	Gly	Leu
		20						25				30			
Gln	Glu	Gln	Glu	Gly	Val	Tyr	Gly	Ala	Ile	Ile	Ile	Asp	Ala	Gly	Glu
		35					40					45			
Pro	Glu	Pro	Phe	Thr	Tyr	Asp	Arg	Glu	His	Val	Val	Met	Leu	Ser	Asp
	50					55					60				
Trp	Thr	Asp	Glu	Asn	Pro	His	Ser	Leu	Leu	Lys	Lys	Leu	Lys	Lys	Gln
65				70						75					80
Ser	Asp	Tyr	Tyr	Asn	Phe	Asn	Lys	Pro	Thr	Val	Gly	Ser	Phe	Phe	Arg
				85					90					95	
Asp	Val	Asn	Thr	Arg	Gly	Leu	Ser	Ala	Thr	Ile	Ala	Asp	Arg	Lys	Met
			100					105					110		
Trp	Ala	Glu	Met	Lys	Met	Asn	Pro	Thr	Asp	Leu	Ala	Asp	Val	Ser	Gly
		115					120					125			
Tyr	Thr	Tyr	Thr	Tyr	Leu	Met	Asn	Gly	Gln	Ala	Pro	Leu	Lys	Asn	Trp
	130					135					140				
Thr	Gly	Leu	Phe	Arg	Pro	Gly	Glu	Lys	Ile	Arg	Leu	Arg	Phe	Ile	Asn
145					150					155				160	
Gly	Ser	Ala	Met	Thr	Tyr	Phe	Asp	Ile	Arg	Ile	Pro	Gly	Leu	Lys	Met
				165					170					175	

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Thr Val Val Ala Ala Asp Gly Gln Tyr Val Asn Pro Val Thr Val Asp
      180      185      190
Glu Phe Arg Ile Ala Val Ala Glu Thr Tyr Asp Val Ile Val Glu Pro
      195      200      205
Gln Gly Glu Ala Tyr Thr Ile Phe Ala Gln Ser Met Asp Arg Thr Gly
      210      215      220
Tyr Ala Arg Gly Thr Leu Ala Thr Arg Glu Gly Leu Ser Ala Ala Val
      225      230      235      240
Pro Pro Leu Asp Pro Arg Pro Leu Leu Thr Met Glu Asp Met Gly Met
      245      250      255
Gly Gly Met Gly His Asp Met Ala Gly Met Asp His Ser Gln Met Gly
      260      265      270
Gly Met Asp Asn Ser Gly Glu Met Met Ser Met Asp Gly Ala Asp Leu
      275      280      285
Pro Asp Ser Gly Thr Ser Ser Ala Pro Met Asp His Ser Ser Met Ala
      290      295      300
Gly Met Asp His Ser Arg Met Ala Gly Met Pro Gly Met Gln Ser His
      305      310      315      320
Pro Ala Ser Glu Thr Asp Asn Pro Leu Val Asp Met Gln Ala Met Ser
      325      330      335
Val Ser Pro Lys Leu Asn Asp Pro Gly Ile Gly Leu Arg Asn Asn Gly
      340      345      350
Arg Lys Val Leu Thr Tyr Ala Asp Leu Lys Ser Arg Phe Glu Asp Pro
      355      360      365
Asp Gly Arg Glu Pro Gly Arg Thr Ile Glu Leu His Leu Thr Gly His
      370      375      380
Met Glu Lys Phe Ala Trp Ser Phe Asn Gly Ile Lys Phe Ser Asp Ala
      385      390      395      400
Ala Pro Val Leu Leu Lys Tyr Gly Glu Arg Leu Arg Ile Thr Leu Ile
      405      410      415
Asn Asp Thr Met Met Thr His Pro Ile His Leu His Gly Met Trp Ser
      420      425      430
Asp Leu Glu Asp Glu Asn Gly Asn Phe Met Val Arg Lys His Thr Ile
      435      440      445
Asp Val Pro Pro Gly Thr Lys Arg Ser Tyr Arg Val Thr Ala Asp Ala
      450      455      460
Leu Gly Arg Trp Ala Tyr His Cys His Leu Leu Tyr His Met Glu Met
      465      470      475      480
Gly Met Phe Arg Glu Val Arg Val Glu Glu
      485      490

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<210> 5910

<211> 91

<212> PRT

<213> Enterobacter cloacae

<400> 5910

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Ser Asn Ile Met Asn Asp Leu Ile Met Ile Val Ile Arg Phe Leu Leu
1      5      10      15
Tyr Leu Asp Leu Met Val Ile Phe Gly Leu Pro Phe Phe Gln Ile Tyr
      20      25      30
Gly Ile Ser Gly Val Arg His Glu Thr Tyr Asn Leu Thr Asn Phe Arg
      35      40      45
Ser Phe Ile Thr Phe Ala Val Val Thr Gly Ile Ile Leu Thr Gly Ile
      50      55      60
Asn Met Leu Leu Val Ser Asn Ala Met Ser Gly Val Thr Asp Leu Arg
      65      70      75      80
Glu Leu Ser Ile His Val Ile Glu Met Val Ile
      85      90

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<210> 5911

<211> 454
 <212> PRT
 <213> Enterobacter cloacae

<400> 5911

Thr	Asn	Ser	Asn	Ser	Ser	Gln	Val	Asn	Phe	Tyr	Tyr	Ile	Gln	Gly	Ser
1				5					10					15	
His	Ala	Ala	Leu	Ser	Gly	Gly	Phe	Met	Leu	Leu	Ala	Gly	Ala	Ile	Phe
			20					25					30		
Ile	Leu	Thr	Ile	Val	Leu	Val	Ile	Trp	Gln	Pro	Lys	Gly	Leu	Gly	Ile
		35					40					45			
Gly	Trp	Ser	Ala	Ile	Phe	Gly	Ala	Ile	Leu	Ala	Leu	Ile	Ser	Gly	Val
	50					55					60				
Val	His	Ile	Thr	Asp	Ile	Leu	Val	Val	Trp	Asn	Ile	Val	Trp	Asn	Ala
65				70					75					80	
Thr	Ala	Thr	Phe	Ile	Ala	Val	Ile	Ile	Ile	Ser	Leu	Leu	Leu	Asp	Glu
			85						90					95	
Ser	Gly	Phe	Phe	Glu	Trp	Ala	Ala	Leu	His	Val	Ser	Arg	Trp	Gly	Asn
			100					105					110		
Gly	Arg	Gly	Arg	Leu	Leu	Phe	Thr	Tyr	Ile	Val	Leu	Leu	Gly	Ala	Ala
		115					120					125			
Val	Ala	Ala	Leu	Phe	Ala	Asn	Asp	Gly	Ala	Ala	Leu	Ile	Leu	Thr	Pro
	130					135					140				
Ile	Val	Ile	Ala	Met	Leu	Leu	Ala	Leu	Gly	Phe	Ser	Lys	Ser	Ala	Thr
145				150						155					160
Leu	Ala	Phe	Val	Met	Ala	Ala	Gly	Phe	Ile	Ala	Asp	Thr	Ala	Ser	Leu
			165					170						175	
Pro	Leu	Ile	Val	Ser	Asn	Leu	Val	Asn	Ile	Val	Ser	Ala	Asp	Phe	Phe
			180					185					190		
His	Leu	Gly	Phe	Thr	Glu	Tyr	Ala	Ser	Val	Met	Val	Pro	Val	Asp	Ile
	195						200					205			
Ala	Ala	Ile	Ile	Ala	Thr	Leu	Val	Met	Leu	His	Leu	Phe	Phe	Arg	Lys
	210					215					220				
Asp	Ile	Pro	Pro	Thr	Tyr	Asp	Leu	Asn	Arg	Leu	Lys	Glu	Pro	Ala	Leu
225				230						235					240
Ala	Ile	Lys	Asp	Pro	Ala	Thr	Phe	Arg	Thr	Gly	Trp	Ile	Val	Leu	Ile
			245						250					255	
Leu	Leu	Leu	Val	Gly	Phe	Phe	Val	Leu	Glu	Pro	Leu	Gly	Ile	Pro	Val
			260					265					270		
Ser	Ala	Ile	Ala	Ala	Val	Gly	Ala	Ala	Ile	Leu	Phe	Phe	Val	Ala	Lys
		275					280					285			
Lys	Gly	His	Ala	Ile	Asn	Thr	Gly	Lys	Val	Leu	Arg	Gly	Ala	Pro	Trp
	290					295					300				
Gln	Ile	Val	Ile	Phe	Ser	Leu	Gly	Met	Tyr	Leu	Val	Val	Tyr	Gly	Leu
305				310						315					320
Arg	Asn	Ala	Gly	Leu	Thr	Glu	Tyr	Leu	Ser	Gly	Val	Leu	Asn	Leu	Phe
			325						330					335	
Ala	Asp	Lys	Gly	Leu	Trp	Ala	Ala	Thr	Phe	Gly	Thr	Gly	Phe	Leu	Thr
			340					345					350		
Ala	Phe	Leu	Ser	Ser	Ile	Met	Asn	Asn	Met	Pro	Thr	Val	Leu	Ile	Gly
		355					360					365			
Ala	Leu	Ser	Ile	Asp	Gly	Ser	Thr	Ala	Ser	Gly	Val	Ile	Lys	Glu	Ala
		370				375					380				
Met	Ile	Tyr	Ala	Asn	Val	Ile	Gly	Cys	Asp	Leu	Gly	Pro	Lys	Ile	Thr
385				390						395					400
Pro	Ile	Gly	Ser	Leu	Ala	Thr	Leu	Leu	Trp	Leu	His	Val	Leu	Ser	Gln
			405						410					415	
Lys	Asn	Met	Thr	Ile	Thr	Trp	Gly	Tyr	Phe	Arg	Thr	Gly	Ile	Ile	
			420					425				430			
Met	Thr	Leu	Pro	Val	Leu	Phe	Val	Thr	Leu	Ala	Ala	Leu	Ala	Leu	Arg
		435					440					445			

Leu Ser Phe Thr Leu
450

<210> 5912

<211> 93

<212> PRT

<213> Enterobacter cloacae

<400> 5912

Asp	Thr	Asp	Met	Ser	Asn	Ile	Thr	Ile	Tyr	His	Asn	Pro	Ala	Cys	Gly
1				5					10					15	
Thr	Ser	Arg	Asn	Thr	Leu	Glu	Met	Ile	Arg	Asn	Ser	Gly	Thr	Glu	Pro
			20					25					30		
Thr	Val	Ile	His	Tyr	Leu	Glu	Thr	Pro	Pro	Ser	Arg	Asp	Glu	Leu	Val
		35					40					45			
Lys	Leu	Ile	Ala	Asp	Met	Gly	Ile	Thr	Val	Arg	Ala	Leu	Leu	Arg	Lys
	50					55					60				
Asn	Val	Glu	Pro	Phe	Glu	Ala	Leu	Gly	Leu	Ala	Glu	Asp	Arg	Phe	Thr
65					70					75					80
Asp	Asp	Gln	Leu	Ile	Asp	Phe	Met	Val	Ser	Val	Lys				
				85					90						

<210> 5913

<211> 112

<212> PRT

<213> Enterobacter cloacae

<400> 5913

Lys	Gln	Lys	Gly	His	Val	Ser	Thr	Pro	Met	Met	Gln	Leu	Gln	Asp	Pro
1				5					10					15	
Glu	Arg	Thr	Lys	Val	Leu	Leu	Val	Thr	Leu	Pro	Glu	Thr	Thr	Pro	Val
			20					25					30		
Leu	Glu	Ala	Ala	Asn	Leu	Gln	Ala	Asp	Leu	Glu	Arg	Ala	Gly	Ile	His
		35					40					45			
Pro	Trp	Gly	Trp	Ile	Ile	Asn	Asn	Ser	Leu	Ser	Ile	Ala	Glu	Thr	Arg
	50					55					60				
Ser	Pro	Leu	Leu	Arg	Gln	Arg	Ser	Gln	Gln	Glu	Leu	Pro	Gln	Ile	Glu
65					70					75					80
Ala	Val	Lys	Asn	Gln	His	Ala	Thr	Arg	Val	Ala	Leu	Val	Pro	Val	Leu
			85						90					95	
Ala	Ala	Glu	Pro	Thr	Gly	Ile	Asp	Lys	Leu	Lys	Gln	Leu	Ala	Gly	
			100					105						110	

<210> 5914

<211> 213

<212> PRT

<213> Enterobacter cloacae

<400> 5914

Asp	Ser	Ile	Ala	Trp	Met	Pro	Arg	Pro	Ala	Val	Val	Lys	Thr	Leu	Phe
1				5					10					15	
Ser	Ala	Glu	Arg	Glu	Gly	Gly	Pro	Leu	Thr	Glu	Ala	Ala	Cys	Trp	Ala
			20					25					30		
His	Ala	Arg	Arg	Lys	Ile	His	Asp	Val	Tyr	Ile	Ser	Thr	Arg	Thr	Ala
		35					40					45			
Thr	Ala	Glu	Glu	Ala	Leu	Lys	Arg	Ile	Ser	Glu	Leu	Tyr	Ala	Ile	Glu
	50					55					60				
Glu	Glu	Ile	Arg	Gly	Leu	Pro	Ala	Ser	Gln	Arg	Leu	Ala	Ala	Arg	Arg
65					70					75					80
Ser	Arg	Ser	Lys	Pro	Leu	Leu	Ile	Ser	Leu	His	Asp	Trp	Leu	Val	Glu
				85					90					95	

Lys Arg Ala Thr Leu Ser Lys Lys Ser Arg Leu Gly Glu Ala Phe Ala
 100 105 110
 Tyr Ala Leu Asn Gln Trp Asp Ala Leu Cys Tyr Tyr Cys Asp Asp Gly
 115 120 125
 Leu Ala Glu Pro Asp Asn Asn Ala Ala Glu Arg Ala Leu Arg Ala Val
 130 135 140
 Cys Leu Gly Lys Lys Asn Tyr Ile Phe Phe Gly Ser Asp His Gly Gly
 145 150 155 160
 Glu Arg Gly Ala Leu Leu Tyr Gly Leu Ile Gly Thr Cys Arg Leu Asn
 165 170 175
 Gly Ile Asp Pro Glu Gly Tyr Leu Arg His Ile Leu Ser Val Leu Pro
 180 185 190
 Glu Trp Pro Ile Asn Lys Val Ala Glu Leu Leu Pro Trp Asn Val Asp
 195 200 205
 Leu Thr Asn Lys
 210

<210> 5915

<211> 142

<212> PRT

<213> Enterobacter cloacae

<400> 5915

Arg Gln Pro Gln Pro Gly Ser Gln Pro Met Gln Thr Gln Leu Val Thr
 1 5 10 15
 Pro Ser Asn Asp Pro Gly Gln Val Ala Pro Val Glu Pro Glu Pro Val
 20 25 30
 Gln Glu Asp Gln Glu Gln Ala Ala Thr Pro Ser Glu Pro Gln Ala Gln
 35 40 45
 Gln Pro Thr Gly Ile Glu Gln Gln Trp Arg Ser Tyr Arg Val Glu Pro
 50 55 60
 Gly Lys Thr Leu Ala Gln Leu Phe Arg Asp His Asn Leu Pro Ala Thr
 65 70 75 80
 Asp Val Tyr Ala Met Ala Gln Val Glu Gly Ala Gly Lys Pro Leu Ser
 85 90 95
 Asn Leu Gln Asn Gly Gln Met Val Gln Ile Arg Gln Asn Ala Ser Gly
 100 105 110
 Val Val Thr Gly Leu Thr Ile Asp Thr Gly Asn Gly Gln Gln Val Leu
 115 120 125
 Phe Thr Arg Gln Pro Asp Gly Ser Phe Ile Arg Ala Arg
 130 135 140

<210> 5916

<211> 154

<212> PRT

<213> Enterobacter cloacae

<400> 5916

Glu Asp Lys Val Met Gln Val Ile Leu Leu Asp Lys Val Ala Asn Leu
 1 5 10 15
 Gly Ser Leu Gly Asp Gln Val Asn Val Lys Ala Gly Tyr Ala Arg Asn
 20 25 30
 Phe Leu Val Pro Gln Gly Lys Ala Val Pro Ala Thr Lys Lys Asn Val
 35 40 45
 Glu Phe Phe Glu Ala Arg Arg Ala Glu Leu Glu Ala Lys Leu Ala Asp
 50 55 60
 Val Leu Ala Ala Ala Asn Ala Arg Ala Glu Ala Ile Asn Ala Leu Gly
 65 70 75 80
 Thr Val Thr Ile Ala Ser Lys Ala Gly Asp Glu Gly Lys Leu Phe Gly
 85 90 95
 Ser Ile Gly Thr Arg Asp Ile Ala Asp Ala Val Thr Ala Ala Gly Val

Ala Gly Gly Tyr Ala Thr Gly Gly Thr Leu Glu Val His Ser Met Lys
 225 230 235 240
 Ala Val Ala Val Leu Gly Tyr Leu Thr Leu Leu Ser Ser Val Ala Phe
 245 250 255
 Ala Leu Trp Ser Ala Leu Leu Lys Val Asn Arg Val Ser Met Ile Ala
 260 265 270
 Pro Phe Asn Phe Val Ile Pro Val Ala Gly Thr Val Leu Ser Ala Ile
 275 280 285
 Phe Leu Gly Asp Asn Ile Met Asp Ile Lys Tyr Ala Ile Ala Leu Val
 290 295 300
 Leu Val Cys Ser Gly Ile Trp Trp Val Asn Lys Arg Arg Ala
 305 310 315

<210> 5919

<211> 95

<212> PRT

<213> Enterobacter cloacae

<400> 5919

Thr Glu Arg Leu Gln Trp Leu Ala Ala Leu Leu Leu Asp Ala Leu Lys
 1 5 10 15
 Ile Gln Gln Gly Asp Thr Leu Leu Thr His Pro Glu Val Trp Ala Leu
 20 25 30
 Val Thr Thr Leu Ala Asn Arg Leu Ser Gly Gln Ser Leu His Ala Ile
 35 40 45
 Leu His Asp Ile Cys Gln Ser Arg Glu Gln Leu Leu Thr Val Thr Gly
 50 55 60
 Gly Gly Leu Asn Arg Glu Leu Leu Leu Thr Asp Gln Leu Leu Arg Ile
 65 70 75 80
 Glu His Tyr Leu Gln Pro Gly Val Ile Pro Pro Val Ser His Leu
 85 90 95

<210> 5920

<211> 291

<212> PRT

<213> Enterobacter cloacae

<400> 5920

Pro Thr Ser Tyr Cys Val Ser Asn Thr Thr Cys Asn Arg Val Ser Tyr
 1 5 10 15
 Arg Arg Phe Pro Thr Ser Glu Arg Asp Ile Met Phe Leu Val Asp Ser
 20 25 30
 His Cys His Leu Asp Gly Leu Asp Tyr Gln Ser Leu His Lys Asn Val
 35 40 45
 Asp Asp Val Leu Ala Lys Ala Ala Arg Asp Val Lys Phe Cys Leu
 50 55 60
 Ala Val Ala Thr Thr Leu Pro Gly Tyr Arg Ser Met Arg Glu Leu Val
 65 70 75 80
 Gly Glu Arg Asp Asn Val Val Phe Ser Cys Gly Val His Pro Leu Asn
 85 90 95
 Gln Asp Glu Ala Tyr Asp Val Glu Asp Leu Arg Arg Leu Ala Ala Glu
 100 105 110
 Glu Gly Val Val Ala Met Gly Glu Thr Gly Leu Asp Tyr Leu Tyr Thr
 115 120 125
 Pro Glu Thr Lys Pro Arg Gln Gln Glu Ser Phe Arg Asn His Ile Arg
 130 135 140
 Ile Gly Arg Glu Leu Asn Lys Pro Val Ile Val His Thr Arg Asp Ala
 145 150 155 160
 Arg Ala Asp Thr Leu Ala Ile Leu Arg Glu Glu Lys Val Thr Asp Cys
 165 170 175
 Gly Gly Val Leu His Cys Phe Thr Glu Asp Arg Glu Thr Ala Gly Lys

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<210> 5921
<211> 489
<212> PRT
<213> Enterobacter cloacae
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<400>	5921														
Lys 1	Lys	His	Lys	Tyr 5	Ser	Gly	Ala	Leu	Ser 10	Ile	Met	Phe	Lys	Asn 15	Ala
Phe	Ala	Asn	Leu 20	Gln	Lys	Val	Gly	Lys 25	Ser	Leu	Met	Leu	Pro 30	Val	Ser
Val	Leu	Pro 35	Ile	Ala	Gly	Ile	Leu 40	Leu	Gly	Val	Gly	Ser 45	Ala	Asn	Phe
Ser	Trp 50	Leu	Pro	Ala	Val	Val 55	Ser	His	Val	Met	Ala 60	Glu	Ala	Gly	Gly
Ser 65	Val	Phe	Ala	Asn	Met 70	Pro	Leu	Ile	Phe	Ala 75	Ile	Gly	Val	Ala	Leu 80
Gly	Phe	Thr	Asn 85	Asn	Asp	Gly	Val	Ser	Ala 90	Leu	Ala	Ser	Val	Val 95	Ala
Tyr	Gly	Ile	Met 100	Val	Lys	Thr	Met	Ala 105	Val	Val	Ala	Pro	Leu 110	Val	Leu
His	Leu	Pro 115	Ala	Glu	Glu	Ile	Ala 120	Ala	Lys	His	Leu	Ala 125	Asp	Thr	Gly
Val	Leu 130	Gly	Gly	Ile	Ile	Ser 135	Gly	Ala	Ile	Ala	Ala 140	Tyr	Met	Phe	Asn
Arg 145	Phe	Tyr	Arg	Ile 150	Lys	Leu	Pro	Glu	Tyr	Leu 155	Gly	Phe	Phe	Ala	Gly 160
Lys	Arg	Phe	Val 165	Pro	Ile	Ile	Ser	Gly	Leu 170	Ala	Ala	Ile	Phe	Thr	Gly 175
Val	Val	Leu 180	Ser	Phe	Ile	Trp	Pro 185	Pro	Ile	Gly	Thr	Ala	Ile 190	Gln	Thr
Phe	Ser	Gln 195	Trp	Ala	Ala	Tyr	His 200	Asn	Pro	Val	Val	Ala 205	Phe	Gly	Ile
Tyr	Gly 210	Phe	Ile	Glu	Arg	Cys 215	Leu	Val	Pro	Phe	Gly 220	Leu	His	His	Ile
Trp 225	Asn	Val	Pro	Phe 230	Gln	Met	Gln	Ile	Gly	Glu 235	Tyr	Thr	Asn	Ala	Ala 240
Gly	Gln	Val 245	Phe	His	Gly	Asp	Ile	Pro	Arg 250	Tyr	Met	Ala	Gly 255	Asp	Pro
Thr	Ala	Gly 260	Lys	Leu	Ser	Gly	Gly 265	Phe	Leu	Phe	Lys	Met	Tyr 270	Gly	Leu
Pro	Ala	Ala 275	Ala	Ile	Ala	Ile	Trp 280	His	Ser	Ala	Lys	Pro 285	Glu	Asn	Arg
Ala	Lys 290	Val	Gly	Gly	Ile	Met 295	Ile	Ser	Ala	Ala	Leu 300	Thr	Ser	Phe	Leu
Thr	Gly	Ile	Thr	Glu	Pro	Ile	Glu	Phe	Ser	Phe	Met	Phe	Val	Ala	Pro

305					310					315				320
Ile	Leu	Tyr	Ile	Ile	His	Ala	Val	Leu	Ala	Gly	Leu	Ala	Phe	Pro Ile
				325					330					335
Cys	Ile	Leu	Leu	Gly	Met	Arg	Asp	Gly	Thr	Ser	Phe	Ser	His	Gly Leu
			340					345					350	
Ile	Asp	Phe	Ile	Val	Leu	Ser	Gly	Asn	Ser	Ser	Lys	Leu	Trp	Leu Phe
		355					360					365		
Pro	Ile	Val	Gly	Ala	Gly	Tyr	Ala	Val	Val	Tyr	Tyr	Thr	Val	Phe Arg
		370				375					380			
Val	Leu	Ile	Lys	Ala	Leu	Asp	Leu	Lys	Thr	Pro	Gly	Arg	Glu	Asp Ala
385					390					395				400
Thr	Glu	Asp	Ser	Lys	Ala	Gly	Ala	Thr	Ser	Glu	Met	Ala	Pro	Ala Leu
				405					410					415
Val	Ala	Ala	Phe	Gly	Gly	Lys	Glu	Asn	Ile	Thr	Asn	Leu	Asp	Ala Cys
			420					425				430		
Ile	Thr	Arg	Leu	Arg	Val	Ser	Val	Ala	Asp	Val	Ala	Lys	Val	Asp Gln
		435					440					445		
Pro	Gly	Leu	Lys	Lys	Leu	Gly	Ala	Ala	Gly	Val	Val	Val	Ala	Gly Ser
		450				455					460			
Gly	Val	Gln	Ala	Ile	Phe	Gly	Thr	Lys	Ser	Asp	Asn	Leu	Lys	Thr Glu
465					470					475				480
Met	Asp	Glu	Tyr	Ile	Arg	Asn	Asn							
				485										

<210> 5922

<211> 177

<212> PRT

<213> Enterobacter cloacae

<400> 5922

Asp	Ser	Asn	Ala	Leu	Ile	Gly	Ser	Ile	Gly	Val	Arg	Met	Asp	His	Trp
1				5					10					15	
Asn	Leu	Ser	Glu	Ile	Met	Ser	Thr	Val	Gly	Val	Lys	Asn	Glu	Pro	Leu
			20					25					30		
Thr	Ala	Gly	Glu	Phe	Lys	Asp	Ala	Leu	Asp	Pro	Phe	His	Pro	Leu	Ser
		35					40					45			
Asp	Ser	Thr	Arg	Glu	Phe	Met	Gln	Lys	Glu	Ile	Leu	Asn	Thr	Met	His
		50				55					60				
Glu	Lys	Phe	Ile	Thr	Asp	Val	Glu	Leu	Gly	Arg	Gly	Lys	Lys	Leu	Leu
65					70				75					80	
Ser	Arg	His	Asp	Ala	Asp	Ala	Val	Ser	Leu	Tyr	Ser	Gly	Arg	Val	Trp
			85					90					95		
Pro	Thr	Pro	Gln	Ala	Val	Lys	Tyr	Gly	Leu	Val	Asp	Gly	Asp	Leu	Thr
			100					105					110		
Ser	Val	Glu	Ile	Arg	Thr	Arg	Leu	Ser	Lys	Met	Tyr	Ser	Thr	Asp	Thr
		115					120					125			
Phe	Lys	Asn	Tyr	Asn	Glu	Pro	His	Arg	Asn	Leu	Arg	Ser	Ala	Leu	Gly
		130				135					140				
Met	Leu	Met	Ser	Leu	Ser	Asn	Ile	Glu	Ser	Leu	Thr	Gly	Thr	Thr	
145					150				155					160	
Thr	Arg	Leu	Val	Glu	Ser	Val	Asn	Ala	Thr	Ser	Tyr	Pro	Ser	Val	Arg
				165					170					175	

<210> 5923

<211> 246

<212> PRT

<213> Enterobacter cloacae

<400> 5923

Gly Asn Met Asp Ala Phe Asn Leu Leu Trp Ser Ile Thr Gly Val Ala
 1 5 10 15
 Phe Ile Ile Leu Ile Phe Val Val Leu Leu Cys Leu Leu Gly Phe Met
 20 25 30
 Thr Ser Ala Ile Ala Glu Arg Arg Thr Ala Lys Ala Ile Glu Ser Gly
 35 40 45
 Leu Pro Glu Glu Ala Gln Gly Leu Leu Ser Asp Leu Thr Phe Gln Leu
 50 55 60
 Ser Ala His Ser Thr Thr Thr Gln Val Asp His Ile Leu Val Ala Pro His
 65 70 75 80
 Gly Ile Tyr Val Ile Glu Gln Lys Asn Tyr Val Gly Lys Leu Tyr Gly
 85 90 95
 Thr Leu Glu Glu Ser His Trp Arg Lys Trp Thr Gln Ser Arg Thr Leu
 100 105 110
 Lys Leu Gln Asn Pro Phe Lys Gln Asn Gln Gly His Ile Arg Ala Ile
 115 120 125
 Gln Ser Ala Leu Lys Ala Arg Glu Leu Glu Cys Ile Asn Val Val Ile
 130 135 140
 Ile Asn Gly Arg Cys Lys Phe Asp Gly Ile Lys Pro Glu Trp Leu Cys
 145 150 155 160
 Met Gly Met Asp Asp Phe Ile His Lys Val Lys Gln Arg Arg Gly Leu
 165 170 175
 Arg Leu Phe Thr Pro Glu Ser Val Gln His Ile Cys Ser Val Leu Lys
 180 185 190
 Ser Thr Arg Lys Ser Pro Gly Leu Tyr Thr Asp Leu Thr His Ile His
 195 200 205
 Asn Ile Thr Thr Lys Tyr Lys Ala Pro Met Lys Phe Glu Gln Arg Val
 210 215 220
 Thr Tyr Ile Leu Leu Asn Phe Ile His Tyr Leu Trp Ala Ser Leu Phe
 225 230 235 240
 Thr Lys Gln Lys Pro
 245

<210> 5924

<211> 275

<212> PRT

<213> Enterobacter cloacae

<400> 5924

Arg Gly Met Pro Ala Arg Val Ser Arg Pro Gly Ile Thr Gly Arg Ser
 1 5 10 15
 His Leu Met Ser Gln Asn Thr Leu Lys Val His Asp Leu Asn Glu Asp
 20 25 30
 Ala Glu Phe Asp Glu Asn Gly Ala Glu Ala Phe Asp Glu Lys Ala Leu
 35 40 45
 Val Glu Glu Glu Pro Ser Asp Asn Asp Leu Ala Glu Glu Glu Leu Leu
 50 55 60
 Ser Gln Gly Ala Thr Gln Arg Val Leu Asp Ala Thr Gln Leu Tyr Leu
 65 70 75 80
 Gly Glu Ile Gly Tyr Ser Pro Leu Leu Thr Ala Glu Glu Glu Val Tyr
 85 90 95
 Phe Ala Arg Arg Ala Leu Arg Gly Asp Val Ala Ser Arg Arg Arg Met
 100 105 110
 Ile Glu Ser Asn Leu Arg Leu Val Val Lys Ile Ala Arg Arg Tyr Gly
 115 120 125
 Asn Arg Gly Leu Ala Leu Leu Asp Leu Ile Glu Glu Gly Asn Leu Gly
 130 135 140
 Leu Ile Arg Ala Val Glu Lys Phe Asp Pro Glu Arg Gly Phe Arg Phe
 145 150 155 160
 Ser Thr Tyr Ala Thr Trp Trp Ile Arg Gln Thr Ile Glu Arg Ala Ile
 165 170 175

Met Asn Gln Thr Arg Thr Ile Arg Leu Pro Ile His Ile Val Lys Glu
 180 185 190
 Leu Asn Val Tyr Leu Arg Thr Ala Arg Glu Leu Ser His Lys Leu Asp
 195 200 205
 His Glu Pro Ser Ala Glu Glu Ile Ala Glu Gln Leu Asp Lys Pro Val
 210 215 220
 Asp Asp Val Ser Arg Met Leu Arg Leu Asn Glu Arg Ile Thr Ser Val
 225 230 235 240
 Asp Thr Pro Leu Gly Gly Asp Ser Glu Lys Ala Leu Leu Asp Ile Leu
 245 250 255
 Ala Asp Glu Lys Asp Asn Gly Pro Glu Asp Thr Thr Gln Asp Asp Asp
 260 265 270
 Met Lys Gln
 275

<210> 5925

<211> 365

<212> PRT

<213> Enterobacter cloacae

<400> 5925

Arg Arg Val Ala Ala Leu Ser Leu Val Ser Leu Trp Leu Ala Gly Cys
 1 5 10 15
 Thr Ser Ser Asn Asn Ala Pro Ala Pro Val Ser Ser Val Asn Gly Thr
 20 25 30
 Ser Gly Ser Gly Asn Thr Ser Ser Gly Met Leu Ile Thr Pro Pro Pro
 35 40 45
 Lys Met Gly Thr Ser Thr Ala Gln Gln Thr Pro Gln Ile Gln Pro Val
 50 55 60
 Gln Arg Pro Val Thr Gln Pro Thr Gln Ile Gln Pro Val Glu Gln Pro
 65 70 75 80
 Val Gln Thr Glu Asn Gly Arg Ile Val Tyr Asn Arg Lys Tyr Gly Asn
 85 90 95
 Ile Pro Lys Gly Ser Tyr Thr Gly Gly Ser Thr Tyr Thr Val Lys Arg
 100 105 110
 Gly Asp Thr Leu Phe Tyr Ile Ala Trp Ile Thr Gly Asn Asp Phe Arg
 115 120 125
 Asp Leu Ala Gln Arg Asn Asn Val Gln Ala Pro Tyr Ala Leu Glu Val
 130 135 140
 Gly Gln Thr Leu Gln Val Gly Asn Ala Thr Gly Thr Pro Leu Thr Pro
 145 150 155 160
 Gly Asn Thr Val Ser Ala Ala Asp Val Thr Ala Gln Asn Asn Ser Val
 165 170 175
 Thr Pro Ala Gln Lys Thr Thr Thr Val Val Ala Ser Gln Pro Val Ile
 180 185 190
 Thr Tyr Ser Glu Asp Ser Gly Asp Gln Ser Ala Asn Lys Met Leu Pro
 195 200 205
 Asn Asn Lys Gly Thr Ala Thr Val Val Thr Ala Pro Thr Thr Ala Pro
 210 215 220
 Val Val Ser Ser Thr Val Pro Thr Ala Ser Ser Gln Asn Ala Ser Ser
 225 230 235 240
 Ser Ile Thr Thr Trp Arg Trp Pro Thr Asp Gly Lys Ile Ile Glu Asn
 245 250 255
 Phe Ala Thr Ser Glu Gly Gly Asn Lys Gly Ile Asp Ile Ala Gly Ser
 260 265 270
 Lys Gly Gln Ala Ile Ile Ala Thr Ala Asp Gly Arg Val Val Tyr Ala
 275 280 285
 Gly Asn Ala Leu Arg Gly Tyr Gly Asn Leu Ile Ile Lys His Asn
 290 295 300
 Asp Asp Tyr Leu Ser Ala Tyr Ala His Asn Asp Thr Met Leu Val Arg
 305 310 315 320

Glu Gln Gln Glu Val Lys Ala Gly Gln Lys Ile Ala Thr Met Gly Ser
 325 330 335
 Thr Gly Thr Ser Ser Thr Arg Leu His Phe Glu Ile Arg Tyr Lys Gly
 340 345 350
 Lys Ser Val Asn Pro Leu Gln Tyr Leu Pro Gln Arg
 355 360 365

<210> 5926

<211> 130

<212> PRT

<213> Enterobacter cloacae

<400> 5926

Ser Leu Leu Asn Phe Leu Ile Pro Lys Asn Lys Gly Ala Ile Ser Pro
 1 5 10 15
 Gln Ile Lys Phe His Gln Val Thr Arg Thr Lys Lys Phe Gln Arg Asp
 20 25 30
 Gln Arg Ile Gln Thr Ser Ala Arg Gly Asn Tyr Gly Arg Glu Gln Thr
 35 40 45
 Glu Glu Glu Pro Pro Lys Gly Thr Ala Pro Glu Lys Pro Gln Ala Ala
 50 55 60
 Gln Arg Arg Glu Lys Arg Lys Thr Glu Lys Gly His Gln Asn Arg Gly
 65 70 75 80
 Glu Lys Leu Ile Ser Glu Gln Asn Arg Ser Pro Asn Glu Lys Arg Asn
 85 90 95
 Ile Ser Ala Glu Lys Lys Arg Glu Ser Ala Gln Leu Val Leu Asp Gln
 100 105 110
 Asn His Thr Val Ala Ala Val Leu His Arg Arg Gly Arg Lys Glu Thr
 115 120 125
 Arg Phe
 130

<210> 5927

<211> 605

<212> PRT

<213> Enterobacter cloacae

<400> 5927

Val Ser Pro Ser Glu Arg Thr Leu Glu Gly Lys Glu Trp Cys Ala Gly
 1 5 10 15
 Asn Thr Asn Gly Asp Ser Gly Lys Ser Leu Lys Val Asn Ile Gly Gly
 20 25 30
 Lys Lys Ser Trp Ala Asp Phe Ala Ser Gly Asp Ser Gly Asp Leu Leu
 35 40 45
 Asp Leu Trp Val Leu Val Arg Asn Cys Gln Leu His Asp Ala Met Arg
 50 55 60
 Glu Ala Lys Glu Phe Leu Gly Leu Lys Asp Asp His His Phe Glu
 65 70 75 80
 Ala Lys Lys Lys Leu Phe Ser Arg Pro Thr Lys Lys Gly Val Lys Ser
 85 90 95
 Ala Ser Lys Cys Tyr Asp Tyr Leu Ala Ser Arg Gly Ile Thr Arg Glu
 100 105 110
 Thr Ala Asp Arg Phe Lys Val Thr Asp Ala Val Val Trp Tyr His Asp
 115 120 125
 Glu Ser Arg Glu Val Pro Ala Val Ala Phe Pro Tyr Ile Arg Asn Gly
 130 135 140
 Glu Leu Leu Gln Val Lys Arg Ile Gly Thr Glu Arg Pro Asn Gly Lys
 145 150 155 160
 Lys Leu Ile Met Ala Glu Ala Asp Cys Glu Pro Cys Leu Phe Gly Trp
 165 170 175
 Gln Ala Leu Asp Lys Asn Thr Arg Leu Val Val Leu Cys Glu Gly Glu

			180					185				190			
Ile	Asp	Cys	Met	Thr	Phe	Thr	Gln	Leu	Gly	Tyr	Asp	Ala	Leu	Ser	Val
		195					200					205			
Pro	Phe	Gly	Gly	Gly	Lys	Gly	Ala	Lys	Gln	Gln	Trp	Ile	Glu	Tyr	Glu
	210					215					220				
Tyr	His	Asn	Leu	Asp	Arg	Phe	Gln	Glu	Ile	Trp	Leu	Cys	Leu	Asp	Asn
225					230					235					240
Asp	Asn	Val	Gly	Arg	Glu	Ala	Ala	Lys	Glu	Ile	Ala	Arg	Arg	Leu	Gly
				245					250					255	
Glu	His	Arg	Cys	Arg	Met	Val	Glu	Leu	Pro	His	Lys	Asp	Ile	Asn	Asp
			260					265					270		
Cys	Leu	Met	Asn	Gly	Met	Asp	Ser	Asp	Ser	Ile	Leu	Glu	Tyr	Met	Glu
		275					280					285			
Arg	Ala	Lys	Phe	Phe	Asp	Pro	Asp	Glu	Leu	Cys	Ser	Ala	Gly	Asp	Leu
	290					295					300				
Leu	Gln	Glu	Thr	Ile	Glu	Ala	Phe	Glu	His	Arg	Asp	Thr	Gly	Leu	Phe
305				310						315					320
Thr	Ser	Pro	Trp	Ala	Ser	Leu	Asn	Asn	Asn	Phe	Lys	Phe	Arg	Ala	Gly
				325					330					335	
Glu	Leu	Thr	Leu	Val	Asn	Gly	Val	Asn	Gly	His	Gly	Lys	Thr	Glu	Leu
			340					345					350		
Val	Gly	His	Ile	Ala	Ile	Asp	Ala	Met	Ser	Gln	Gly	Val	Arg	Thr	Cys
		355					360					365			
Ile	Ala	Ser	Leu	Glu	Leu	Lys	Pro	Gly	Lys	Met	Leu	Ala	Arg	Leu	Thr
	370					375					380				
Arg	Gln	Thr	Ile	Cys	Thr	Ser	Ser	Pro	Lys	Arg	Glu	Glu	Ile	Ile	Met
385				390						395					400
Thr	Asn	Glu	Trp	Phe	Ser	Asp	Arg	Leu	Trp	Val	Phe	Lys	Leu	Thr	Gly
				405					410					415	
Thr	Ala	Lys	Ala	Asp	Arg	Leu	Leu	Glu	Ile	Phe	Ala	Tyr	Ala	Arg	Arg
			420					425					430		
Arg	Tyr	Gly	Ile	Glu	Leu	Phe	Val	Ile	Asp	Asn	Leu	Ala	Lys	Cys	Gly
		435					440					445			
Leu	Asp	Glu	Glu	Asp	Tyr	Thr	Gly	Gln	Lys	Asp	Phe	Ile	Asp	Thr	Leu
	450					455					460				
Cys	Asp	Phe	Lys	Asn	Glu	His	Asn	Cys	His	Val	Leu	Leu	Val	Thr	His
465				470						475					480
Ala	Arg	Lys	Thr	Asn	Asp	Ser	Ala	Pro	Thr	Gly	Lys	Met	Asp	Val	Lys
				485					490					495	
Gly	Thr	Gly	Ala	Leu	Thr	Asp	Met	Pro	Asp	Asn	Val	Met	Ala	Val	Trp
			500					505					510		
Arg	Asn	Ile	Pro	Arg	Glu	Leu	Ala	Gln	Arg	Lys	Ala	Asp	Arg	Met	Gly
		515					520					525			
Tyr	Glu	Ser	Leu	Asp	Lys	Asp	Glu	Gln	Ala	Ala	Ile	Asn	Leu	Pro	Ala
	530					535					540				
Ser	Met	Ile	Arg	Leu	Leu	Lys	Gln	Arg	Glu	Gly	Glu	Gly	Trp	Ile	Gly
545					550					555					560
Asp	Ile	Gly	Ala	Asn	Phe	Asp	Ser	Arg	Ser	His	Gln	Phe	Leu	Glu	Gly
				565					570					575	
Glu	Lys	Lys	Pro	Phe	Asn	Tyr	Leu	Val	Gly	Lys	Pro	Gln	Ser	Glu	Leu
			580					585					590		
Asp	Leu	Glu	Trp	Glu	Ala	Ser	Asn	Val	Thr	Arg	Val				
		595					600					605			

<210> 5928

<211> 343

<212> PRT

<213> Enterobacter cloacae

<400> 5928

Ala Ser Ser Arg Leu His Asn His Ala Ser Ser Gly Val Cys Val Ser

1				5					10					15	
Ser	Lys	Ile	Leu	Gly	Asn	Val	Trp	Asp	Ala	Cys	Ala	Ala	His	Asp	Ile
			20					25					30		
Lys	Gly	Ala	Lys	Leu	Val	Ile	Met	Ala	Arg	Leu	Ala	Asp	Tyr	Ser	Asn
		35					40					45			
Asp	Asp	Gly	Val	Cys	Tyr	Pro	Ser	Val	Glu	Thr	Ile	Cys	Arg	Gln	Leu
		50				55					60				
Gly	Leu	Gly	Glu	Ser	Thr	Val	Arg	Thr	Ala	Ile	Ala	Glu	Leu	Glu	Ser
65					70					75				80	
Ser	Gly	Trp	Leu	Arg	Arg	Glu	Ala	Arg	Arg	Lys	Gly	Asn	Arg	Asn	Thr
				85				90						95	
Ser	Asn	Leu	Tyr	His	Leu	Asn	Ala	Glu	Arg	Leu	Glu	Ala	Leu	Ala	Arg
			100					105					110		
Ile	Glu	Glu	Asp	Lys	Val	Ala	Ala	Leu	Lys	Gln	Gln	Arg	Arg	Thr	Asn
		115					120					125			
Gly	Phe	His	Pro	Ser	Asp	Ser	Asp	Pro	Ser	Lys	Thr	Glu	Pro	Ser	Asp
		130				135					140				
Ser	Gly	Phe	Ser	Asn	Gly	Phe	His	Pro	Ser	Asp	Ser	Asp	Lys	Asn	Gly
145					150					155				160	
Val	Phe	Thr	Arg	Gln	Asn	Leu	Thr	Pro	Asp	Pro	Gln	Val	Asn	Ser	Lys
				165					170					175	
His	Asp	Pro	Gln	Val	Asn	Ser	Lys	His	Asp	Pro	Gln	Val	Asn	Ser	Lys
			180					185					190		
Gln	Glu	Ser	Gln	Asp	Ile	Gly	Val	Cys	Gly	Lys	Ala	Ser	Ser	Glu	Asn
		195				200						205			
Arg	Ser	Ser	Lys	Glu	Asn	Tyr	Ser	Asn	Glu	Phe	Glu	Lys	Ala	Trp	Gln
		210				215					220				
Ala	Tyr	Pro	Lys	Arg	Ala	Gly	Gly	Asn	Ser	Lys	Ala	Ala	Ala	Trp	Lys
225					230					235				240	
Ala	Trp	Lys	Ala	Arg	Ile	Lys	Asp	Gly	Val	Asn	Thr	Glu	Ala	Met	Leu
				245					250					255	
Ala	Gly	Val	Asn	Arg	Tyr	Ala	Gly	Tyr	Val	Arg	Ala	Thr	Gly	Ser	Ala
			260					265					270		
Gly	Thr	Gln	Tyr	Val	Lys	Gln	Ala	Ala	Thr	Phe	Phe	Gly	Pro	Asp	Lys
		275				280						285			
His	Phe	Asp	Glu	Pro	Trp	Leu	Val	Glu	Thr	Gln	Glu	Asn	Lys	Val	Pro
		290				295					300				
Thr	Arg	Gln	Asp	Gln	Ser	Arg	Tyr	Glu	Trp	Tyr	Ala	Lys	Ser	Asp	Asp
305					310					315				320	
Gly	Ser	Ala	Glu	Val	Phe	Ile	Asn	Gln	Ser	Ala	Ile	Asp	Arg	Met	Asn
				325					330					335	
Arg	Gly	Gly	Tyr	Arg	Pro										
			340												

<210> 5929

<211> 182

<212> PRT

<213> Enterobacter cloacae

<400> 5929

Ser	Pro	Cys	Pro	Arg	Ala	Ala	Ala	Asp	Arg	Leu	Asn	Thr	Ser	Asn	Asn
1				5				10					15		
Thr	Lys	Val	Arg	Ile	Asp	Pro	Ile	Ile	Val	Ala	Gln	Asp	Gly	Ser	Leu
			20					25					30		
Cys	Gly	Pro	Gly	Thr	Ala	Cys	Thr	Thr	Val	Ala	Lys	Gln	Thr	Tyr	Ala
		35					40				45				
Leu	Pro	Ala	Arg	Pro	Asp	Leu	Ser	Gly	Gly	Met	Gly	Gly	Val	Ser	Thr
	50				55					60					
Pro	Ala	Val	Pro	Ala	Gln	Pro	Gln	Gly	Glu	Val	Arg	Ala	Ile	Ser	Asn
65					70				75					80	
Asp	Thr	Leu	Gln	Ser	Glu	Asp	Ala	Thr	Gly	Ala	Pro	Val	Lys	Ser	Ser

				85					90					95			
Gly	Phe	Phe	Gly	Ala	Pro	Thr	Thr	Leu	Ala	Pro	Gly	Val	Ile	Glu	Ser		
			100					105					110				
Asn	Glu	Pro	Ala	Pro	Ala	Leu	Ala	Pro	Val	Val	Ala	Ala	Pro	Ala	Ala		
		115						120					125				
Gln	Pro	Ala	Pro	Val	Thr	Ala	Pro	Cys	Cys	Tyr	Ala	Asp	Cys	Gly	Ala		
	130					135					140						
Cys	Asp	Gly	Glu	Arg	Gln	Leu	Arg	Gly	Ser	Gly	Trp	Arg	Cys	Gln	Arg		
145					150					155					160		
Ser	Asp	Pro	Cys	Arg	Ala	Ile	Ser	Ala	Ala	Phe	Lys	Gln	Thr	Val	Trp		
				165					170						175		
Arg	Ala	Arg	Pro	Arg													
			180														

<210> 5930

<211> 106

<212> PRT

<213> Enterobacter cloacae

<400> 5930

Asn	Ser	Arg	Pro	Val	Ala	Gly	Val	Ile	Ile	Phe	Tyr	Thr	His	Ala	Gly		
1			5					10					15				
Ala	Asp	Met	Lys	Thr	Lys	Leu	Asn	Glu	Leu	Leu	Glu	Phe	Pro	Thr	Pro		
			20					25					30				
Phe	Thr	Tyr	Lys	Val	Met	Gly	Leu	Ala	Lys	Pro	Glu	Leu	Val	Asp	Gln		
		35				40						45					
Val	Val	Glu	Val	Val	Gln	Arg	His	Ala	Pro	Gly	Asp	Tyr	Ser	Pro	Ser		
	50				55					60							
Val	Lys	Pro	Ser	Ser	Lys	Gly	Asn	Tyr	His	Ser	Val	Ser	Ile	Thr	Ile		
65					70					75					80		
Thr	Ala	Thr	His	Ile	Glu	Gln	Val	Glu	Thr	Leu	Tyr	Glu	Glu	Leu	Gly		
				85					90					95			
Asn	Ile	Glu	Ile	Val	Arg	Met	Val	Leu									
			100					105									

<210> 5931

<211> 90

<212> PRT

<213> Enterobacter cloacae

<400> 5931

Pro	Arg	Pro	Ala	Ala	Thr	Gln	Thr	Ala	Ala	Pro	Ala	Thr	Ala	Ser	Gly		
1			5					10					15				
Ser	Tyr	Val	Val	Gln	Val	Gly	Ala	Val	Ser	Asp	Arg	Thr	Arg	Ala	Glu		
			20					25					30				
Gln	Tyr	Gln	Gln	Arg	Leu	Ser	Lys	Gln	Phe	Gly	Val	Pro	Gly	Arg	Val		
		35					40					45					
Glu	Gln	Asn	Gly	Ala	Val	Trp	Arg	Ile	Gln	Met	Gly	Pro	Phe	Ala	Ser		
	50				55					60							
Lys	Ser	Gln	Ala	Ala	Ser	Leu	Gln	Gln	Arg	Leu	Gln	Ser	Glu	Ala	Gln		
65					70					75					80		
Leu	Gln	Ser	Phe	Ile	Ala	Val	Ala	Lys									
				85				90									

<210> 5932

<211> 435

<212> PRT

<213> Enterobacter cloacae

<400> 5932

His	Ser	His	Asp	Glu	Ser	Arg	Met	Pro	Ala	Arg	Ile	Ala	Phe	Ala	Ile		
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	--	--

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<210> 5933
<211> 229
<212> PRT
<213> Enterobacter cloacae
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<400> 5933

Tyr Thr Pro Arg Tyr Leu Phe Ser Leu Val Phe Gly Asp Val Leu Leu
 1 5 10 15
 Tyr Gln Asp Lys Ile Leu Val Arg His Leu Gly Ile Gln Pro Tyr Glu
 20 25 30
 Pro Val Ser Gln Ala Met His Asp Phe Thr Asp Met Arg Asp Asp Thr
 35 40 45
 Thr Pro Asp Glu Ile Trp Leu Val Glu His Met Pro Val Phe Thr Gln
 50 55 60
 Gly Gln Ala Gly Lys Ala Glu His Leu Leu Met Thr Gly Asp Ile Pro
 65 70 75 80
 Val Ile Gln Ser Asp Arg Gly Gly Gln Val Thr Tyr His Gly Pro Gly
 85 90 95
 Gln Gln Val Met Tyr Val Leu Leu Asn Leu Lys Arg Arg Lys Leu Gly
 100 105 110
 Val Arg Glu Leu Val Thr Leu Leu Glu Gln Thr Val Val Asn Thr Leu
 115 120 125
 Ala Glu Tyr Gly Ile Asp Ala His Pro Arg Ala Asp Ala Pro Gly Val
 130 135 140
 Tyr Val Gly Glu Lys Lys Ile Cys Ser Leu Gly Leu Arg Ile Arg Lys
 145 150 155 160
 Gly Cys Ser Phe His Gly Leu Ala Leu Asn Ile Asn Met Asp Leu Thr
 165 170 175
 Pro Phe Gln Arg Ile Asn Pro Cys Gly Tyr Ala Gly Met Glu Met Thr
 180 185 190
 Gln Met Arg Gln Trp Val Ala Thr Ala Thr Pro Glu Asn Ile Arg Pro
 195 200 205
 Val Leu Leu Lys Lys Phe Leu Ala Leu Leu Asn Asn Pro Asp His Glu
 210 215 220
 Tyr Ile Ala Ala
 225

<210> 5934

<211> 387

<212> PRT

<213> Enterobacter cloacae

<400> 5934

Pro Gly Val Asp Met Tyr Ala Leu Thr His Gly Arg Ile Tyr Thr Gly
 1 5 10 15
 His Glu Ile Leu Asp Asp His Ala Ile Val Ile Ala Asn Gly Leu Ile
 20 25 30
 Glu Arg Val Cys Pro Leu Ala Glu Leu Pro Pro Glu Ile Glu Gln Arg
 35 40 45
 Ser Leu Asn Gly Ala Val Ile Ser Pro Gly Phe Ile Asp Val Gln Leu
 50 55 60
 Asn Gly Cys Gly Gly Val Gln Phe Asn Asp Thr Ala Glu Ala Val Thr
 65 70 75 80
 Val Glu Thr Leu Glu Ile Met Gln Lys Ala Asn Glu Lys Ser Gly Cys
 85 90 95
 Thr Ser Tyr Leu Pro Thr Leu Ile Thr Ser Ser Asp Asp Leu Met Lys
 100 105 110
 Gln Gly Ile Arg Val Met Arg Glu Tyr Leu Ala Lys His Pro Asn Gln
 115 120 125
 Ala Leu Gly Leu His Leu Glu Gly Pro Trp Leu Asn Met Val Lys Lys
 130 135 140
 Gly Thr His Asn Pro Asn Tyr Val Arg Lys Pro Asp Ala Glu Leu Val
 145 150 155 160
 Asp Tyr Met Cys Ala Asn Ala Asp Val Ile Thr Lys Val Thr Leu Ala
 165 170 175
 Pro Glu Met Thr Gly Thr Asp Val Ile Ser Lys Leu Ala Ala Ala Gly

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<210> 5935
<211> 268
<212> PRT
<213> Enterobacter cloacae
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<400> 5935															
Ile	Met	Arg	Leu	Ile	Pro	Leu	Ala	Thr	Ala	Glu	Gln	Val	Gly	Lys	Trp
1				5					10					15	
Ala	Ala	Arg	His	Ile	Val	Asn	Arg	Ile	Asn	Ala	Phe	Lys	Pro	Thr	Ala
			20					25					30		
Asp	Arg	Pro	Phe	Val	Leu	Gly	Leu	Pro	Thr	Gly	Gly	Thr	Pro	Leu	Thr
		35					40					45			
Ala	Tyr	Lys	Ala	Leu	Val	Glu	Met	His	Lys	Ala	Gly	Gln	Val	Ser	Phe
	50					55					60				
Lys	His	Val	Val	Thr	Phe	Asn	Met	Asp	Glu	Tyr	Val	Gly	Leu	Pro	Lys
65					70					75					80
Glu	His	Pro	Glu	Ser	Tyr	His	Ser	Phe	Met	His	Arg	Asn	Phe	Phe	Asp
				85					90					95	
His	Val	Asp	Ile	Pro	Ala	Glu	Asn	Ile	Asn	Leu	Leu	Asn	Gly	Asn	Ala
			100					105					110		
Pro	Asp	Ile	Asp	Ala	Glu	Cys	Arg	Gln	Tyr	Glu	Glu	Lys	Ile	Arg	Ser
		115					120					125			
Tyr	Gly	Lys	Ile	His	Leu	Phe	Met	Gly	Gly	Val	Gly	Asn	Asp	Gly	His
	130					135					140				
Ile	Ala	Phe	Asn	Glu	Pro	Ala	Ser	Ser	Leu	Ala	Ser	Arg	Thr	Arg	Ile
145					150					155					160
Lys	Thr	Leu	Thr	His	Asp	Thr	Arg	Val	Ala	Asn	Ser	Arg	Phe	Phe	Asp
				165					170					175	
Gly	Asp	Val	Asn	Gln	Val	Pro	Lys	Tyr	Ala	Leu	Thr	Val	Gly	Val	Gly
			180					185					190		
Thr	Leu	Leu	Asp	Ala	Glu	Glu	Val	Met	Ile	Leu	Val	Leu	Gly	Ala	Val
		195					200					205			
Lys	Ala	Gln	Ala	Leu	Gln	Ala	Ala	Val	Glu	Gly	Asn	Val	Asn	His	Met

210		215		220
Trp Thr Ile Ser Cys	Leu Gln Leu His Pro Lys	Ala Val Val Val Cys		
225	230	235	240	
Asp Glu Pro Ser Thr	Met Glu Leu Lys Val Lys	Thr Leu Lys Tyr Phe		
	245	250	255	
Asn Glu Leu Glu Ala	Glu Asn Ile Lys Gly Leu			
260	265			

<210> 5936

<211> 399

<212> PRT

<213> Enterobacter cloacae

<400> 5936

Val Ser Lys Ser Met Thr Pro Gly Gly Gln Ala Gln Ile Gly Asn Val	
1 5 10 15	
Asp Leu Val Lys Gln Leu Asn Ser Ala Ala Val Tyr Arg Leu Ile Asp	
20 25 30	
Gln His Gly Pro Ile Ser Arg Ile Gln Ile Ala Glu Gln Ser Gln Leu	
35 40 45	
Ala Pro Ala Ser Val Thr Lys Ile Thr Arg Gln Leu Ile Glu Arg Gly	
50 55 60	
Leu Ile Lys Glu Val Asp Gln Gln Ala Ser Thr Gly Gly Arg Arg Ala	
65 70 75 80	
Ile Ser Ile Val Thr Glu Thr Arg Asn Phe Gln Ala Ile Gly Val Arg	
85 90 95	
Leu Gly Arg His Asp Thr Thr Leu Thr Leu Tyr Asp Leu Ser Ser Lys	
100 105 110	
Ala Ile Ala Glu Glu His Tyr Pro Leu Pro Glu Arg Thr Gln Glu Thr	
115 120 125	
Leu Glu His Ala Leu Leu Asn Thr Ile Ala Gln Phe Ile Glu Ser Cys	
130 135 140	
Gln Arg Lys Ile Arg Glu Leu Ile Ala Ile Ser Val Ile Leu Pro Gly	
145 150 155 160	
Leu Val Asp Pro Glu Ser Gly Val Ile Arg Tyr Met Pro His Ile Lys	
165 170 175 180	
Val Glu Asn Trp Gly Leu Val Glu Ala Leu Glu Lys Arg Phe Lys Leu	
185 190	
Thr Cys Phe Val Gly His Asp Ile Arg Ser Leu Ala Leu Ala Glu His	
195 200 205	
Tyr Phe Gly Ala Ser Gln Asp Cys Glu Asp Ser Ile Leu Val Arg Val	
210 215 220	
His Arg Gly Thr Gly Ala Gly Ile Ile Ser Asn Gly Arg Ile Phe Ile	
225 230 235 240	
Gly Arg Asn Gly Asn Val Gly Glu Ile Gly His Ile Gln Val Glu Pro	
245 250 255	
Leu Gly Glu Arg Cys His Cys Gly Asn Phe Gly Cys Leu Glu Thr Val	
260 265 270	
Ala Ala Asn Ala Ala Ile Glu His Arg Val Arg His Leu Glu Gln	
275 280 285	
Gly Tyr Gln Ser Arg Val Thr Leu Asp Asp Cys Lys Ile Gly Ala Ile	
290 295 300	
Cys Lys Ala Ala Asn Lys Gly Asp Ala Leu Ala Cys Glu Val Ile Glu	
305 310 315 320	
Gln Val Gly Arg His Leu Gly Lys Thr Ile Ala Ile Ala Ile Asn Leu	
325 330 335	
Phe Asn Pro Gln Lys Val Val Ile Ala Gly Glu Ile Val Glu Ala Glu	
340 345 350	
Lys Val Leu Leu Pro Ala Ile Glu Gly Cys Ile Asn Thr Gln Ala Leu	
355 360 365	
Lys Ala Phe Arg Gln Asn Leu Pro Val Val Arg Ser Thr Leu Asp His	

370 375 380
 Arg Ser Ala Ile Val Phe Ile His Glu Gly Arg Glu Arg Arg
 385 390 395

<210> 5937
 <211> 115
 <212> PRT
 <213> Enterobacter cloacae

<400> 5937
 Met Arg Arg Asp Met Tyr Glu Val Met Asp Arg Trp Gly Ala Trp Ala
 1 5 10 15
 Ala Ala Asp Ser Ser Gly Val Asp Trp Gln Pro Ile Ala Ala Gly Phe
 20 25 30
 Lys Gly Leu Leu Pro His Gly Lys Lys Ser Arg Leu Gln Cys Asp Asp
 35 40 45
 Asp Glu Gly Ile Met Ile Asp Gly Cys Ile Ala Arg Leu Arg Lys Phe
 50 55 60
 Lys Ser Asp Glu Tyr Glu Leu Leu Ile Ala His Phe Val Ile Gly Ile
 65 70 75 80
 Ser Leu Arg Thr Ile Ala Lys Lys Lys Lys Cys Ser Asp Gly Thr Val
 85 90 95
 Arg Lys Asp Leu Gln Thr Ala Leu Gly Phe Val Glu Gly Val Met Ser
 100 105 110
 Met Leu
 115

<210> 5938
 <211> 212
 <212> PRT
 <213> Enterobacter cloacae

<400> 5938
 Asp Val Met Gly Ile Met Cys Asp Met Ser Tyr Arg Leu Tyr Pro Leu
 1 5 10 15
 Lys Asn Thr Val Ala Phe Arg Lys Thr Thr Glu Lys Trp Gly Gly Leu
 20 25 30
 Ser Asn Met Ala Lys Gly Tyr Pro Leu Leu Ile Asn Gly Leu Pro Ile
 35 40 45
 Gln Ser Ser Glu Ile Leu Tyr Gln Ala Cys Arg Tyr Pro Asp Tyr Pro
 50 55 60
 Glu Ile Gln Lys Ala Ile Ile Thr Gln Gly Asn Pro Tyr Glu Ala Lys
 65 70 75 80
 Gln Thr Ala Arg Ser Phe Glu Ala Lys Thr Arg Ser Gly Trp Glu Lys
 85 90 95
 Asn Arg Val Ser Ile Met Lys Trp Cys Val Cys Val Lys Leu Cys Gln
 100 105 110
 Asn Trp Glu Thr Phe Phe Ala Leu Leu Asp Ser Thr Gly Glu His Asp
 115 120 125
 Ile Val Glu His Ser Glu Lys Asp Gln Phe Trp Gly Ala Ser Lys Asp
 130 135 140
 Ser Glu Gly Asn Phe Tyr Gly Met Asn Val Leu Gly Arg Ile Leu Met
 145 150 155 160
 Asp Val Arg Asp Val Ala Arg Lys Arg Gly Pro Thr Gly Phe Ala Ser
 165 170 175
 Ile Pro Pro Leu Pro Leu Glu Lys Phe Leu Leu Leu Gly Asp His Ile
 180 185 190
 Arg Asp Val Thr Phe Thr Pro Pro Val Asp Thr Gly His Ser Leu
 195 200 205
 Ser Leu Phe
 210

<210> 5939
 <211> 217
 <212> PRT
 <213> Enterobacter cloacae

<400> 5939
 Ser Ser Arg Ile Arg Cys Asn Met Leu Phe His Thr Asn Asn Ser Ile
 1 5 10 15
 Tyr Leu Ser His Asn Asp Gly Gln Gln Val Ser His Thr Pro Ser Met
 20 25 30
 His Cys Tyr Gly Cys Val Lys Lys Cys Leu Phe Gly Asp Ala Glu Ala
 35 40 45
 Cys Ala Arg Lys Thr Cys Thr Gly Leu Glu Cys Tyr Ile Trp Pro Asp
 50 55 60
 Asn Asn Ser Tyr Leu Val Glu Gly Ile Arg His Tyr Phe Glu Cys Val
 65 70 75 80
 Ser Asp Lys Tyr Ile Ser Gln Pro Val Val Ile Ile Asp Phe Ser His
 85 90 95
 Lys Asn Ile Thr Tyr Phe Leu Asn Asp Ser Trp Leu Glu Gln Phe Lys
 100 105 110
 Asn Met Arg Leu Ile Leu Val Thr Asp Lys Lys Met Thr Ala Ile Ala
 115 120 125
 His Tyr Trp Phe Tyr Asn Asp Thr Leu Glu Thr Thr Ile Ser Ser Ile
 130 135 140
 Ile Phe Tyr Asp Asp Ser Ala Glu Glu Val Ala Thr Lys Leu Lys Lys
 145 150 155 160
 Thr Phe Leu Ala Lys Thr Ile Lys Pro Ser Gly Ser Arg Pro Lys Leu
 165 170 175
 Ser Gln Asn Glu Phe Ser Leu Phe Ser Phe Leu Phe Asn Gly Trp Thr
 180 185 190
 Pro Lys Lys Ile Ala Tyr Gln Asn Gly Thr Ser Val Lys Asn Thr Tyr
 195 200 205
 Ala Met Lys Asn Leu His His Glu
 210 215

<210> 5940
 <211> 812
 <212> PRT
 <213> Enterobacter cloacae

<400> 5940
 Phe Met Arg Ile Cys Cys Leu Gly Arg Ile Lys Thr Leu Phe Tyr His
 1 5 10 15
 Gly Leu Ser Leu Tyr Leu Ser Ser Leu Ile Leu Leu Ala Trp Thr Ala
 20 25 30
 Ala Leu Gly Val Ala Gly Leu Trp Asn Ile Trp Val Leu Val Pro Leu
 35 40 45
 Ala Ile Ile Leu Leu Pro Phe Asn Leu Thr Pro Met Arg Lys Ser Met
 50 55 60
 Ile Ser Val Pro Val Phe Arg Gly Phe Arg Lys Val Met Pro Pro Met
 65 70 75 80
 Ser Arg Thr Glu Lys Glu Ala Ile Asp Ala Gly Thr Thr Trp Trp Glu
 85 90 95
 Gly Asp Leu Phe Gln Gly Asn Pro Asp Trp Lys Lys Leu His Asn Tyr
 100 105 110
 Pro Gln Pro Arg Leu Thr Ala Glu Gln Ala Phe Ile Asp Gly Pro
 115 120 125
 Val Glu Glu Ala Cys Arg Met Ala Asn Asp Phe Ala Ile Thr His Glu
 130 135 140
 Met Ala Asp Leu Pro Pro Glu Leu Trp Ala Tyr Leu Lys Glu His Arg

145					150								160			
Phe	Phe	Ala	Met	Ile	Ile	Lys	Lys	Glu	Tyr	Gly	Gly	Leu	Glu	Phe	Ser	
				165					170					175		
Ala	Tyr	Ala	Gln	Ala	Arg	Val	Leu	Gln	Lys	Leu	Ala	Gly	Val	Ser	Gly	
			180					185					190			
Ile	Leu	Ala	Ile	Thr	Val	Gly	Val	Pro	Asn	Ser	Leu	Gly	Pro	Gly	Glu	
		195					200					205				
Leu	Leu	Gln	His	Tyr	Gly	Thr	Glu	Glu	Gln	Lys	Asp	His	Tyr	Leu	Pro	
	210				215					220						
Arg	Leu	Ala	Arg	Gly	Gln	Glu	Ile	Pro	Cys	Phe	Ala	Leu	Thr	Ser	Pro	
225				230					235						240	
Glu	Ala	Gly	Ser	Asp	Ala	Gly	Ala	Ile	Pro	Asp	Thr	Gly	Val	Val	Cys	
				245					250					255		
Met	Gly	Glu	Trp	Gln	Gly	Gln	Gln	Val	Leu	Gly	Met	Arg	Leu	Thr	Trp	
			260					265					270			
Asn	Lys	Arg	Tyr	Ile	Thr	Leu	Ala	Pro	Ile	Ala	Thr	Val	Leu	Gly	Leu	
		275					280					285				
Ala	Phe	Lys	Leu	Ser	Asp	Pro	Glu	Lys	Leu	Leu	Gly	Glu	Glu	Asp		
	290				295						300					
Leu	Gly	Ile	Thr	Cys	Ala	Leu	Ile	Pro	Thr	Ser	Thr	Pro	Gly	Val	Glu	
305				310						315					320	
Ile	Gly	Arg	Arg	His	Phe	Pro	Leu	Asn	Val	Pro	Phe	Gln	Asn	Gly	Pro	
				325				330						335		
Thr	Arg	Gly	Gln	Asp	Ile	Phe	Val	Pro	Ile	Asp	Tyr	Ile	Ile	Gly	Gly	
			340					345					350			
Pro	Lys	Met	Ala	Gly	Gln	Gly	Trp	Arg	Met	Leu	Val	Glu	Cys	Leu	Ser	
		355					360					365				
Val	Gly	Arg	Gly	Ile	Thr	Leu	Pro	Ser	Asn	Ser	Thr	Gly	Gly	Leu	Lys	
	370				375						380					
Ser	Val	Ala	Met	Gly	Ile	Gly	Ala	Tyr	Ala	His	Ile	Arg	Arg	Gln	Phe	
385				390					395						400	
Lys	Ile	Ser	Ile	Gly	Lys	Met	Glu	Gly	Ile	Glu	Glu	Pro	Leu	Ala	Arg	
				405				410						415		
Ile	Ala	Gly	Asn	Ala	Tyr	Val	Met	Asp	Ala	Ala	Ala	Ser	Leu	Ile	Thr	
			420					425					430			
Tyr	Gly	Ile	Met	Leu	Gly	Glu	Lys	Pro	Ala	Val	Leu	Ser	Ala	Ile	Val	
		435				440						445				
Lys	Tyr	His	Cys	Thr	His	Arg	Ala	Gln	Gln	Ser	Ile	Ile	Asp	Ala	Met	
	450				455					460						
Asp	Ile	Ala	Ser	Gly	Lys	Gly	Ile	Met	Leu	Gly	Glu	Gly	Asn	Phe	Leu	
465				470					475						480	
Ala	Arg	Asn	Tyr	Gln	Gly	Ala	Pro	Ile	Ala	Ile	Thr	Val	Glu	Gly	Ala	
				485				490						495		
Asn	Ile	Leu	Thr	Arg	Ser	Met	Met	Ile	Phe	Gly	Gln	Gly	Ala	Ile	Arg	
			500					505								

Gly	Val	Gln	Asp	Ala	Leu	Tyr	Gln	Ala	Glu	Gln	Ala	Ile	Asp	Asp	Leu
				645					650					655	
Leu	Ala	Asn	Phe	Pro	Asn	Arg	Phe	Val	Ala	Gly	Ala	Leu	Arg	Val	Val
				660					665					670	
Ile	Phe	Pro	Thr	Gly	Arg	His	His	Leu	Ala	Pro	Ser	Asp	Lys	Leu	Asp
				675				680					685		
His	Lys	Val	Ala	Lys	Ile	Leu	Gln	Val	Pro	Ser	Ala	Thr	Arg	Ser	Arg
				690				695				700			
Ile	Gly	Arg	Gly	Gln	Tyr	Leu	Ala	Pro	Thr	Pro	His	Asn	Pro	Val	Gly
705					710						715				720
Leu	Leu	Glu	Glu	Ala	Leu	Leu	Asp	Val	Met	Ala	Ala	Asp	Pro	Ile	His
				725					730					735	
Gln	Lys	Ile	Cys	Lys	Gln	Leu	Gly	Lys	Asn	Leu	Pro	Phe	Thr	Arg	Leu
				740					745					750	
Asp	Glu	Leu	Ala	Lys	Gln	Ala	Leu	Ala	Gly	Gly	Ile	Ile	Asp	Asn	Ser
				755				760					765		
Glu	Ala	Ala	Ile	Leu	Val	Lys	Ala	Glu	Glu	Ser	Arg	Leu	Arg	Ser	Ile
				770				775				780			
Asn	Val	Asp	Asp	Phe	Glu	Pro	Glu	Glu	Leu	Ala	Thr	Gln	Pro	Val	Lys
785					790					795					800
Leu	Pro	Glu	Lys	His	Arg	Lys	Pro	Glu	Ala	Ala					
				805					810						

<210> 5941

<211> 263

<212> PRT

<213> Enterobacter cloacae

<400> 5941

Gly	Val	Gly	Ile	Val	Pro	Gly	Leu	Lys	Ile	Ser	Val	Leu	Gln	Gln	Pro
1				5					10					15	
Leu	Val	Trp	Met	Asp	Gly	Pro	Ala	Asn	Leu	Arg	His	Phe	Asp	Arg	Gln
				20				25					30		
Leu	Glu	Glu	Ile	Ser	Gly	Arg	Asp	Val	Ile	Val	Leu	Pro	Glu	Met	Phe
				35				40				45			
Thr	Thr	Gly	Phe	Ala	Met	Glu	Ala	Ala	Lys	Gln	Ser	Met	Pro	Gln	Asp
						55					60				
Glu	Val	Val	Ala	Trp	Met	His	Ala	Lys	Ala	Gln	Glu	Thr	Asn	Ala	Leu
65					70					75					80
Ile	Ala	Gly	Ser	Val	Ala	Leu	Gln	Thr	Glu	Arg	Gly	Pro	Val	Asn	Arg
				85					90					95	
Phe	Leu	Leu	Val	Glu	Pro	Glu	Gly	Lys	Val	His	Phe	Tyr	Asp	Lys	Arg
				100				105					110		
His	Leu	Phe	Arg	Met	Ala	Asp	Glu	His	Gln	His	Tyr	Val	Ala	Gly	Asn
				115				120				125			
Glu	Arg	Val	Val	Phe	Glu	Trp	Arg	Gly	Trp	Arg	Ile	Leu	Pro	Leu	Val
						135					140				
Cys	Tyr	Asp	Leu	Arg	Phe	Pro	Val	Trp	Ser	Arg	Asn	Arg	Asn	Asp	Tyr
145					150					155					160
Asp	Leu	Ala	Leu	Tyr	Val	Ala	Asn	Trp	Pro	Ala	Pro	Arg	Ser	Leu	His
				165					170					175	
Trp	Gln	Ala	Leu	Leu	Thr	Ala	Arg	Ala	Ile	Glu	Asn	Gln	Ala	Tyr	Ile
				180				185					190		
Val	Gly	Cys	Asn	Arg	Val	Gly	Thr	Asp	Gly	Asn	Gly	His	His	Tyr	Arg
				195				200				205			
Gly	Asp	Ser	Arg	Val	Ile	Ser	Pro	Gln	Gly	Glu	Ile	Ile	Ala	Thr	Ala
						215					220				
Glu	Pro	His	Gln	Ala	Thr	Arg	Ile	Asp	Ala	Glu	Leu	Ser	Leu	Thr	Ala
225					230					235					240
Leu	Thr	Glu	Tyr	Arg	Glu	Lys	Phe	Pro	Ala	Trp	Gln	Asp	Ala	Asp	Arg
				245					250					255	

Phe Ser Ile Glu Asn Lys
260

<210> 5942

<211> 166

<212> PRT

<213> Enterobacter cloacae

<400> 5942

Glu	Asp	Ile	His	Trp	Ile	Phe	Leu	Val	Ser	Arg	Pro	Leu	Tyr	Pro	Leu
1				5					10					15	
Ala	Val	Glu	Leu	Leu	Met	Arg	Pro	Glu	Ser	Thr	Leu	Leu	Ser	Asp	Met
		20						25					30		
Glu	Pro	Ile	Glu	Gly	Val	Ile	Asn	Ala	Ile	Arg	Ala	Gly	Ser	Glu	Arg
		35					40					45			
Ala	Glu	Arg	Ile	Ser	Gln	Thr	Leu	Leu	Ile	Pro	Glu	Thr	Pro	Asp	Ile
		50				55					60				
Glu	Glu	Glu	Ser	Glu	Gln	Met	Ile	Ala	Leu	Thr	His	Ser	Glu	Arg	Lys
65					70				75						80
Val	Leu	Arg	Leu	Leu	Gly	Lys	Gly	Trp	Gly	Ile	Asn	Gln	Ile	Ala	Thr
			85					90						95	
Leu	Leu	Asn	Lys	Ser	Asn	Lys	Thr	Ile	Ser	Ala	Gln	Lys	Asn	Ser	Ala
		100						105					110		
Met	Arg	Arg	Leu	Ser	Leu	Arg	Ser	Asn	Ala	Asp	Met	Tyr	Ala	Trp	Ile
		115					120					125			
Ser	Ser	Thr	Gln	Gly	Met	Arg	Glu	Leu	Ser	Leu	Met	Ser	Ala	Tyr	Gly
		130				135					140				
Glu	Phe	Glu	Glu	Trp	Lys	Arg	Pro	Leu	Gln	Gln	Asp	Ile	Ser	Pro	Ser
145					150					155					160
Ser	Lys	Ala	Ala	Gln											
				165											

<210> 5943

<211> 383

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (327)

<400> 5943

Glu	Arg	Pro	Lys	Arg	Thr	Tyr	Asp	Arg	Arg	Ser	Ala	Met	Ser	Ala	Asn
1				5					10					15	
His	Ala	Ala	Phe	Asn	Leu	Ile	Phe	Arg	Phe	Val	Glu	Asn	Tyr	Val	Ser
		20						25					30		
Pro	Ile	Ala	Gly	Arg	Ile	Ser	Ser	Gln	Arg	His	Val	Met	Ala	Ile	Arg
		35					40					45			
Asp	Gly	Phe	Ile	Ser	Ala	Met	Pro	Phe	Met	Ile	Val	Gly	Ser	Phe	Leu
	50					55					60				
Leu	Val	Phe	Ala	Tyr	Pro	Pro	Phe	Ser	Pro	Asp	Thr	Thr	Trp	Gly	Phe
65					70					75					80
Ala	Arg	Ala	Trp	Leu	Asp	Met	Ala	Lys	Gln	Phe	Glu	Gly	Gln	Ile	Leu
			85					90						95	
Thr	Pro	Phe	Asp	Met	Thr	Met	Gly	Val	Met	Ser	Leu	Tyr	Ile	Cys	Ala
			100				105						110		
Ala	Ile	Ala	Tyr	Asn	Leu	Gly	Lys	His	Tyr	Val	Lys	Thr	His	Gln	Leu
		115					120					125			
Asp	Pro	Phe	Met	Cys	Ala	Met	Leu	Ser	Leu	Met	Ala	Phe	Leu	Leu	Val
	130					135					140				
Ala	Ala	Pro	Lys	Thr	Lys	Gly	Ala	Leu	Pro	Val	Asp	Ser	Leu	Gly	Gly

145					150					155				160
Thr	Gly	Ile	Phe	Thr	Ala	Ile	Leu	Val	Ala	Ile	Tyr	Cys	Val	Glu Met
				165					170					175
Met	Arg	Phe	Leu	Lys	Ala	His	Asn	Ile	Gly	Ile	Arg	Leu	Pro	Asp Gln
			180					185					190	
Val	Pro	Pro	Met	Ile	Lys	Asn	Ser	Phe	Asp	Leu	Leu	Ile	Pro	Val Leu
		195					200					205		
Val	Val	Val	Leu	Thr	Leu	Tyr	Pro	Leu	Ser	Leu	Leu	Ile	Gln	Ser Gln
	210					215					220			
Phe	Gly	Met	Leu	Ile	Pro	Gln	Ala	Ile	Met	Ser	Ile	Phe	Lys	Pro Leu
225					230					235				240
Val	Ser	Ala	Ala	Asp	Ser	Leu	Pro	Ala	Ile	Leu	Leu	Ala	Val	Leu Ile
				245						250				255
Gly	His	Leu	Leu	Trp	Phe	Ala	Gly	Ile	His	Gly	Ala	Ala	Ile	Val Ser
		260					265						270	
Gly	Met	Leu	Gln	Met	Phe	Trp	Leu	Thr	Asn	Leu	Gly	Ala	Asn	His Thr
		275					280					285		
Ala	Leu	Ala	Ala	Asn	Gln	Pro	Leu	Pro	His	Ile	Phe	Met	Glu	Ala Phe
	290					295					300			
Trp	Thr	Phe	Phe	Ile	Val	Ile	Gly	Gly	Ser	Gly	Ala	Thr	Met	Gly Leu
305					310					315				320
Val	Phe	Cys	Tyr	Leu	Arg	Xaa	Arg	Ser	Ala	His	Leu	Arg	Ser	Ile Gly
				325					330					335
Arg	Leu	Asn	Val	Val	Pro	Ser	Ile	Phe	Asn	Ile	Asn	Glu	Pro	Val Ile
			340					345					350	
Phe	Val	Thr	Pro	Asp	Cys	Asp	Glu	Pro	Gly	Val	Leu	Tyr	Ser	Phe Pro
		355					360					365		
Cys	Trp	Arg	Arg	Trp	Leu	Ile	Pro	Cys	Trp	His	Gly	Gln	Arg	
	370					375					380			

<210> 5944

<211> 71

<212> PRT

<213> Enterobacter cloacae

<400> 5944

Phe	Pro	Ser	Cys	Arg	Gly	Arg	His	Pro	Ala	Pro	Val	Gly	Ala	Ala	Trp
1			5					10						15	
Ala	Leu	Gly	Trp	Asp	Phe	Arg	Ala	Ala	Ile	Leu	Val	Leu	Val	Leu	Ala
			20					25					30		
Cys	Val	Ser	Ala	Ile	Ile	Tyr	Phe	Pro	Phe	Phe	Lys	Val	Tyr	Glu	Lys
		35					40					45			
Gln	Leu	Leu	Gln	Gln	Glu	Ala	Glu	Glu	Ala	Gln	Arg	Asn	Gly	Glu	Glu
	50					55					60				
Glu	Asn	Gln	Gln	Val	Ala										
65					70										

<210> 5945

<211> 230

<212> PRT

<213> Enterobacter cloacae

<400> 5945

Gly	Met	Glu	Lys	Thr	Thr	Ala	Thr	Arg	His	Ile	Ala	Val	Ile	Glu	Ser
1				5					10					15	
Cys	Ser	Met	Ser	Ala	Val	Gly	Leu	Lys	His	Leu	Phe	Ala	Met	Pro	Ser
			20					25					30		
Leu	Ser	His	Tyr	Gln	Val	His	Leu	Phe	Ser	Arg	Phe	Ala	Ser	Phe	Lys
		35					40					45			
Ala	Ala	Leu	Ser	Asp	Ile	Ser	Phe	Tyr	Ala	Val	Ile	Tyr	Ser	Leu	Ser
	50					55					60				

Asp Glu Arg Glu Glu Arg Arg Asn Cys Leu Ala Cys Leu Arg Asp Leu
 65 70 75 80
 Thr Phe Thr His Ser Asp Val Gln Arg Ile Val Leu Ala Ser Asp Glu
 85 90 95
 Met Glu Ala Arg Leu Val Ser His Leu Ser Pro Ser Arg Leu His Gly
 100 105 110
 Ile Ile Ser Lys Ser Val Pro Leu Lys Gln Leu Met Glu Gly Leu Lys
 115 120 125
 Thr Leu Leu Ser Glu Thr His Gln Val Asn Asp Asn Met Tyr Asn His
 130 135 140
 Trp Cys Val Ser Gln Asn Arg Met Leu Ser Pro Thr Glu Arg Ala Ile
 145 150 155 160
 Leu Arg Tyr Met Ser Ser Gly Phe Ser Ile Pro Glu Ile Ala Ala Gln
 165 170 175
 Leu Glu Arg Asn Ile Lys Thr Ile Arg Ala His Lys Phe Asn Ala Met
 180 185 190
 Val Lys Leu Gly Val Asn Ser Asp Val Gly Leu Leu Asp Ala Ala Asp
 195 200 205
 Ile Leu Ala His Leu Pro Ala Arg Glu Val Arg Arg Ser Ala Leu Thr
 210 215 220
 Val Pro Ser Phe Ser
 225 230

<210> 5946

<211> 267

<212> PRT

<213> Enterobacter cloacae

<400> 5946

Arg Leu His Thr Met Ala Thr Arg Thr Ala His Ile Val Glu Pro Leu
 1 5 10 15
 Leu Trp Arg Ala Pro Leu Ser Ala Gly Glu Thr Thr Leu Ala Asp Ala
 20 25 30
 Ile Arg Glu Lys Ile Ala Val Thr Arg Ala His Leu Leu Asp Phe Ile
 35 40 45
 Lys Leu Asp Glu Ala Pro Pro His His Ala Leu Thr Leu Thr Glu Trp
 50 55 60
 Gln Arg Pro Ala Glu Leu Arg Ser Leu Leu Ala Thr Tyr Ser Asp His
 65 70 75 80
 Ile Tyr Arg Asn Gln Pro Thr Leu Thr Arg Glu Asn Lys Pro Leu Leu
 85 90 95
 Ser Leu Trp Ala Gln Trp Tyr Ile Gly Leu Met Val Pro Pro Val Met
 100 105 110
 Leu Ala Leu Leu Thr Gln Glu Thr Met Leu Asp Leu Ser Ser Glu His
 115 120 125
 Phe His Val Glu Phe His Glu Thr Gly Arg Ala Ala Cys Phe Trp Ile
 130 135 140
 Asp Val His Glu Asp Pro Ser Ala Arg His Leu Ser Ala Gln Ala Arg
 145 150 155 160
 Met Glu Arg Leu Ile Thr Arg Ala Leu Val Pro Val Ile Asp Ala Leu
 165 170 175
 Glu Ala Thr Gly Glu Ile Asn Gly Lys Leu Ile Trp Ser Asn Thr Gly
 180 185 190
 Tyr Leu Ile His Trp Tyr Leu Thr Glu Met Lys Pro Leu Leu Gly Asp
 195 200 205
 Glu Lys Val Asp Ala Leu Arg Gln Ser Cys Phe Phe Ala Arg Gln Leu
 210 215 220
 Ser Asp Gly Arg Asp Asn Pro Leu Tyr Arg Thr Val Val Pro Arg Glu
 225 230 235 240
 Gly Leu Leu Val Arg Arg Thr Cys Cys Gln Arg Tyr Arg Leu Pro Asp
 245 250 255

Val Gln Gln Cys Gly Asp Cys Thr Leu Lys
260 265

<210> 5947

<211> 164

<212> PRT

<213> Enterobacter cloacae

<400> 5947

Gln	Ile	Thr	Gln	Asp	Ile	Cys	Gln	Glu	Glu	Ser	Met	Ser	Leu	Gln	Ser
1				5					10					15	
Val	Gln	Gln	Phe	Phe	Ala	Glu	His	Ala	Pro	Asp	Ile	Glu	Ile	Ile	Glu
			20					25					30		
Leu	Asn	Gln	Ser	Thr	Ala	Thr	Val	Ala	Leu	Ala	Ala	Ala	Ala	His	Asn
		35					40					45			
Val	Glu	Pro	Gly	Gln	Ile	Ala	Lys	Thr	Leu	Ser	Leu	Lys	Ile	Lys	Asn
	50					55					60				
Asp	Val	Ile	Leu	Val	Val	Ala	Lys	Gly	Asp	Ala	Arg	Leu	Asp	Asn	Lys
65					70					75				80	
Lys	Leu	Lys	Glu	Thr	Phe	Gly	Ala	Lys	Ala	Arg	Met	Leu	Ser	Ser	Asp
				85					90					95	
Glu	Val	Val	Thr	Leu	Thr	Gly	His	Pro	Val	Gly	Gly	Val	Cys	Pro	Phe
			100					105					110		
Gly	Leu	Glu	Asn	Pro	Leu	Ser	Val	Tyr	Cys	Asp	Ile	Thr	Leu	Lys	Gln
		115					120					125			
Tyr	Ala	Glu	Val	Leu	Pro	Ala	Ala	Gly	Ala	Ile	His	Ser	Ala	Val	Arg
	130					135					140				
Ile	Ser	Pro	Asp	Arg	Met	Ala	Glu	Leu	Thr	Ala	Ala	Lys	Trp	Val	Asp
145					150					155					160
Val	Cys	Ile													

<210> 5948

<211> 335

<212> PRT

<213> Enterobacter cloacae

<400> 5948

Ile	Ala	Ile	Leu	Pro	Gly	Pro	Cys	Cys	Tyr	Thr	Gln	Ala	Pro	Ser	Thr
1				5					10					15	
Cys	Thr	Ala	Gly	Cys	Ser	Ile	Thr	Ala	Asn	Tyr	Leu	Lys	Lys	Phe	Ile
			20					25					30		
Met	Ser	Arg	Ile	Leu	Ala	Ala	Ile	Thr	Leu	Leu	Leu	Ser	Val	Ile	Leu
		35					40					45			
Thr	Ile	Leu	Val	Thr	Ile	Ala	Cys	Ser	Val	Pro	Ile	Ile	Val	Ala	Gly
	50					55					60				
Ile	Ile	Lys	Leu	Leu	Leu	Pro	Val	Pro	Pro	Val	Trp	Arg	Ala	Val	Ser
65					70					75				80	
Ala	Phe	Cys	Asn	Phe	Met	Met	Tyr	Cys	Trp	Cys	Glu	Gly	Leu	Ala	Ile
			85					90					95		
Leu	Leu	His	Leu	Asn	Pro	Trp	Leu	Lys	Trp	Asp	Val	Gln	Gly	Leu	Glu
			100					105					110		
Lys	Leu	Asn	Lys	Lys	Asn	Trp	Tyr	Leu	Leu	Ile	Cys	Asn	His	His	Ser
		115					120					125			
Trp	Ala	Asp	Ile	Val	Val	Leu	Cys	Val	Leu	Phe	Arg	Lys	His	Ile	Pro
	130					135					140				
Met	Asn	Lys	Tyr	Phe	Leu	Lys	Gln	Gln	Leu	Ala	Trp	Val	Pro	Phe	Ile
145					150					155					160
Gly	Leu	Ala	Cys	Trp	Ala	Leu	Asp	Met	Pro	Phe	Met	Lys	Arg	Tyr	Ser
			165						170					175	
Arg	Ser	Tyr	Leu	Ile	Arg	His	Pro	Glu	Arg	Arg	Gly	Lys	Asp	Val	Glu

Arg Val Ser Leu Asn Glu Arg Ser Thr Thr Met Lys Cys Lys Arg Leu
 1 5 10 15
 Asn Glu Val Ile Glu Leu Leu Gln Pro Ala Trp Gln Lys Glu Pro Glu
 20 25 30
 Leu Asn Leu Met Gln Phe Leu Gln Lys Leu Ala Lys Glu Ser Gly Phe
 35 40 45
 Asp Gly Glu Leu Ala Asp Leu Ser Asp Asp Ile Leu Ile Tyr His Leu
 50 55 60
 Lys Met Arg Asp Ser Ala Lys Asp Ala Val Ile Pro Gly Ile Gln Lys
 65 70 75 80
 Asp Tyr Glu Glu Asp Phe Lys Thr Ala Leu Leu Arg Ala Arg Gly Val
 85 90 95
 Ile Lys Glu
 100

<210> 5951

<211> 334

<212> PRT

<213> Enterobacter cloacae

<400> 5951

Phe Pro Asp Asp Arg Met Asn Asp Gln Ala Phe Thr Phe Gln Thr Leu
 1 5 10 15
 His Pro Asp Thr Ile Met Asp Ala Leu Phe Glu Gln Gly Ile Arg Val
 20 25 30
 Asp Ser Gly Leu Thr Ala Leu Asn Ser Tyr Glu Asn Arg Val Tyr Gln
 35 40 45
 Phe Gln Asp Glu Glu Arg Gln Arg Phe Val Val Lys Phe Tyr Arg Pro
 50 55 60
 Gln Arg Trp Ser Ala Glu Gln Ile Gln Glu Glu His Gln Phe Ala His
 65 70 75 80
 Asp Leu Leu Asp Asp Val Pro Val Ala Ala Pro Ile Lys Phe Asn
 85 90 95
 Asn Gln Thr Leu Leu Thr His Gln Gly Phe Tyr Tyr Ala Val Phe Pro
 100 105 110
 Ser Leu Gly Gly Arg Gln Phe Glu Ala Asp Asn Ile Asp Gln Met Glu
 115 120 125
 Trp Val Ala Arg Tyr Leu Gly Arg Ile His Gln Thr Gly Arg Lys Lys
 130 135 140
 Pro Phe Val Ala Arg Pro Thr Ile Gly Val Lys Glu Tyr Leu Ile Glu
 145 150 155 160
 Pro Arg Gln Val Phe Glu Thr Ser Ala Leu Ile Pro Asn Ala Leu Lys
 165 170 175
 Asp Asn Phe Leu Thr Ala Thr Asp Lys Leu Ile Asp Ala Val Lys Ala
 180 185 190
 Ser Trp Arg Asp Asp Ile Thr Thr Leu Arg Leu His Gly Asp Cys His
 195 200 205
 Ala Gly Asn Ile Leu Trp Arg Asp Gly Pro Leu Phe Val Asp Leu Asp
 210 215 220
 Asp Ala Arg Met Gly Pro Ala Val Gln Asp Leu Trp Met Leu Leu Asn
 225 230 235 240
 Gly Asp Lys Ala Glu Gln Arg Met Gln Leu Glu Thr Ile Ile Glu Ala
 245 250 255
 Tyr Glu Glu Phe Ile Pro Phe Asn Ser Asp Glu Ile Ala Leu Ile Glu
 260 265 270
 Pro Leu Arg Ala Met Arg Phe Val Tyr Tyr Leu Ala Trp Leu Ile Arg
 275 280 285
 Arg Trp Glu Asp Pro Ala Phe Pro Arg Asn Phe Pro Trp Leu Thr Gly
 290 295 300
 Glu Asp Tyr Trp Arg Asn Gln Ile Ser Thr Phe Thr Glu Gln Val Lys
 305 310 315 320

Val Leu Gln Glu Pro Pro Leu Gln Leu Thr Pro Met Tyr
325 330

<210> 5952

<211> 217

<212> PRT

<213> Enterobacter cloacae

<400> 5952

Leu Asp Thr Pro Arg Arg Glu Leu Ile Met Lys Lys Ile Trp Leu Ala
1 5 10 15
Leu Ala Gly Met Ile Leu Ala Phe Ser Ala Thr Ala Ala Gln Phe Thr
20 25 30
Asp Gly Lys Gln Tyr Ile Thr Leu Asp Lys Pro Val Ala Gly Glu Pro
35 40 45
Gln Val Leu Glu Phe Phe Ser Phe Tyr Cys Pro His Cys Tyr Glu Phe
50 55 60
Glu Gln Val Leu His Val Ser Asp Asn Val Lys Lys Lys Leu Pro Glu
65 70 75 80
Gly Thr Lys Met Thr Lys Tyr His Val Glu Phe Leu Gly Pro Leu Gly
85 90 95
Lys Asp Leu Thr Gln Ala Trp Ala Val Ala Ile Ala Leu Gly Val Glu
100 105 110
Asp Lys Ile Thr Ala Pro Met Phe Glu Ala Val Gln Lys Thr Gln Thr
115 120 125
Val Gln Thr Thr Ala Asp Ile Arg Lys Val Phe Val Asp Ala Gly Val
130 135 140
Lys Gly Glu Asp Tyr Asp Ala Ala Trp Asn Ser Phe Val Val Lys Ser
145 150 155 160
Leu Val Ala Gln Gln Glu Lys Ala Ala Ala Asp Phe Gln Leu Gln Gly
165 170 175
Val Pro Ala Met Tyr Val Asn Gly Lys Tyr Gln Val Asn Met Arg Gly
180 185 190
Met Asp Thr Thr Ser Met Asp Ile Phe Val Gln Gln Tyr Ala Asp Thr
195 200 205
Val Lys Tyr Leu Val Glu Lys Lys
210 215

<210> 5953

<211> 88

<212> PRT

<213> Enterobacter cloacae

<400> 5953

Asp Ala Gln Pro Ala Asn Leu Leu His Arg Gly Arg Lys Arg Ser Ala
1 5 10 15
Trp Thr Ile Pro Glu Gly Ala Thr Ala Pro Gln Ala Ala Asp Lys Ile
20 25 30
His Thr Asp Phe Val Lys Gly Phe Ile Arg Thr Gln Thr Ile Val Phe
35 40 45
Glu Asp Phe Ile Thr Tyr Lys Gly Glu Gln Gly Ala Lys Glu Thr Gly
50 55 60
Lys Met Arg Ala Glu Gly Lys Asp Tyr Ile Ile Lys Asp Gly Asp Val
65 70 75 80
Met Asn Phe Leu Phe Asn Leu
85

<210> 5954

<211> 83

<212> PRT

<213> Enterobacter cloacae

<400> 5954

Cys	Gln	Arg	Met	Thr	Phe	Ser	Cys	Val	Arg	Arg	Leu	Cys	Val	Thr	Phe
1				5					10					15	
Ser	Ala	Glu	Ser	Ser	Ser	Gly	Lys	Gly	Ser	Val	Glu	Val	Ala	Val	Tyr
			20					25					30		
Ala	Ala	Val	Glu	Ser	Asp	Ile	Ala	Glu	Ile	Ile	Asp	Gly	Asp	His	Lys
		35					40					45			
Glu	Phe	Met	Ala	Glu	Arg	Gly	Leu	Asn	Arg	Val	Ile	Arg	Ala	Gly	Tyr
	50					55					60				
Glu	Leu	Leu	Ser	Leu	Gln	Thr	Tyr	Phe	Thr	Ala	Gly	Val	Lys	Glu	Val
65					70					75					80
Asn	Ala														

<210> 5955

<211> 102

<212> PRT

<213> Enterobacter cloacae

<400> 5955

Arg	Gln	Arg	Met	Pro	Phe	Ser	Cys	Val	Arg	Arg	Leu	Cys	Val	Thr	Phe
1				5					10					15	
Ser	Ala	Asp	Ser	Ser	Ser	Asp	Lys	Gly	Ser	Val	Val	Val	Ala	Phe	Trp
			20					25					30		
Asn	Ala	Val	Glu	Ser	Asp	Ile	Ala	Glu	Met	Asn	Asp	Ala	Asp	Arg	Glu
		35					40					45			
Asp	Phe	Met	Ala	Glu	Gln	Gly	Leu	Asn	Arg	Val	Ile	Arg	Ala	Gly	His
	50					55					60				
Glu	Met	Leu	Ser	Leu	Gln	Thr	Tyr	Phe	Thr	Ala	Gly	Val	Lys	Glu	Val
65					70					75					80
Arg	Gly	Pro	Ser	Leu	Arg	Val	Arg	Leu	Arg	Leu	Arg	Arg	Pro	Ile	Lys
				85					90					95	
Ser	Thr	Pro	Ile	Ser											
				100											

<210> 5956

<211> 444

<212> PRT

<213> Enterobacter cloacae

<400> 5956

Val	Cys	Arg	Leu	Ser	Ile	Ser	Trp	Pro	Ala	Arg	Ile	Thr	Arg	Phe	Arg
1				5					10					15	
Pro	Cys	Ser	Ala	Met	Lys	Ser	Ser	Arg	Ser	Ala	Ser	Phe	Ile	Ser	Ala
			20					25					30		
Ile	Ser	Asp	Ser	Thr	Ala	Phe	Gln	Asn	Ala	Thr	Thr	Thr	Glu	Pro	Leu
		35					40					45			
Ser	Leu	Glu	Glu	Ser	Ala	Glu	Lys	Val	Thr	His	Asn	Arg	Leu	Thr	Gln
	50					55					60				
Leu	Asn	Gly	Ile	Arg	Trp	Arg	Tyr	Asp	Ile	His	Gly	Arg	Thr	Val	Glu
65					70					75					80
Lys	Asp	Asn	Gly	Gln	Thr	Arg	Trp	His	Tyr	Arg	Tyr	Asp	Gly	Glu	His
				85					90					95	
Arg	Leu	Thr	Glu	Val	Ile	Ser	Gln	Pro	Arg	Asp	Arg	Asn	Arg	Pro	Gln
			100					105					110		
Thr	Leu	Val	Ser	Phe	Arg	Tyr	Asp	Pro	Leu	Gly	Arg	Arg	Ile	Ser	Lys
		115					120					125			
Thr	Arg	Arg	Gln	Met	Leu	Gly	Gln	Pro	Thr	Gly	Lys	Pro	Val	Thr	
	130					135				140					
Thr	Arg	Phe	Val	Trp	Glu	Gly	Phe	Arg	Leu	Leu	Gln	Glu	Val	His	Gly

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145          150          155          160
Asp Val Pro Leu Thr Tyr Val Tyr Ser Asp Gln Asp Ser Tyr Asp Pro
165
Leu Ala Arg Ile Asp Gly Val Asp Ala Gln Glu Ile Phe Trp Phe His
180
Cys Gln Pro Asn Gly Thr Pro Glu Arg Met Thr Asp Ser Glu Gly Gln
195
Val Arg Trp Glu Gly Val Asn Ser Ala Trp Gly Lys Leu Leu Arg Glu
210
Ser Glu Thr Gln Val Ser Gly Tyr Phe Gln Asn Leu Arg Met Gln Gly
225
Gln Tyr Leu Asp Arg Glu Thr Gly Leu His Tyr Asn Leu Phe Arg Tyr
245
Tyr Asp Pro Asp Cys Gly Arg Phe Thr Gln Gln Asp Pro Ile Gly Leu
260
Ala Gly Gly Ile Asn Leu Tyr Gln Tyr Ala Pro Asn Ala Leu Gly Trp
275
Val Asp Pro Trp Gly Leu Ser Arg Glu Cys Ser Gly Lys Thr Lys Pro
290
Asp Phe Tyr Val Gly Pro Asn Gly Pro Ser Ser Thr Met Pro Ser Thr
305
Ala Tyr Arg Tyr Met Asp Ser Lys Tyr Ala Pro Gln Thr Ile Glu Asn
325
Lys Ser Ala Pro Leu Ser Tyr Phe Gly Tyr Thr Lys Tyr Lys Ser Ala
340
His Glu Ala Arg Asp Ala Tyr Gln Ile Phe Tyr Glu Lys Gly Asn Pro
355
Asp Ser Trp Ser Asp Ala Arg Leu Leu Gly Glu Phe Asp Thr Leu Gln
370
Leu Tyr Lys Asn Gly Val Pro Gln Val Gln Val Pro Leu Ala Asn Gly
385
Gly Arg Gly Pro Gly Tyr Glu Leu Phe Thr Ser Ala Tyr Pro Glu Tyr
405
Gly Lys Gly Gly Ala Leu Gln Leu Leu Pro Ile Glu Arg Asn Tyr Pro
420
Val Ile Phe Glu Arg Val Thr Ile Ile Pro Glu
435
440

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<210> 5957

<211> 268

<212> PRT

<213> Enterobacter cloacae

<400> 5957

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Thr Gln Lys Ile Ser Leu Ser Leu Lys Glu Leu Leu Lys Val Gly Gly
1      5      10      15
Val Val Val Glu Val Lys Ile Tyr Tyr Lys Gly Ser Val Asp Phe Ile
20
Ala Gly Glu Gly Thr Ile Leu Asn Glu Phe Ile Gly Glu Val Ala Thr
35
Arg Gln Ile Asn Ile Ile Asp Gly Asn Tyr Tyr Ala Ser Ser Ser Leu
50
Leu Asp Lys Lys Glu Lys Val Gly Phe Leu Leu Tyr Asp Gly Lys Lys
65
Ser Asp Leu Asn Leu Ser Asp Ala Glu Glu Ile Ser Asn Glu Glu Phe
85
Glu Val Phe Trp Gln Thr Ser Thr Gly Ser Leu Gln Glu Lys Lys Arg
100
Ile Lys Tyr Leu Ser Gly Asp Ala Val Glu Pro Leu Lys Lys Ser Thr
115
Val Ile Ala His Ile Val Asn Asn Lys Gly Lys Trp Gly Lys Gly Phe
125

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130		135		140											
Val	Leu	Ser	Leu	Ser	Asn	Lys	Tyr	Pro	Ala	Ala	Lys	Lys	Ser	Tyr	Leu
145					150					155					160
Ser	Cys	Phe	Lys	Glu	Asn	Asn	Phe	Pro	Glu	Leu	Gly	Val	Val	Asp	Phe
			165						170					175	
Val	Met	Val	Asp	Ala	Gln	Glu	Lys	Ile	Phe	Ile	Ala	Asn	Met	Tyr	Ala
			180					185					190		
Gln	Asp	Gly	Ile	Lys	Lys	Asn	Ile	Asn	Asp	Lys	Lys	Gln	Tyr	Val	Cys
		195				200						205			
Tyr	Asp	Ser	Leu	Lys	Val	Cys	Leu	Glu	Lys	Leu	Ser	Asp	Phe	Ala	Leu
	210					215					220				
Val	Asn	Arg	Leu	Ser	Ile	Gln	Met	Pro	Arg	Ile	Gly	Ala	Gly	Leu	Gly
225					230					235					240
Gly	Gly	Asp	Trp	Asn	Val	Ile	Glu	Ser	Leu	Ile	Leu	Lys	Asn	Ile	Cys
			245					250						255	
Tyr	Lys	Met	Ile	Asp	Cys	Asn	Val	Ile	Thr	Leu					
		260						265							

<210> 5958

<211> 68

<212> PRT

<213> Enterobacter cloacae

<400> 5958

Ser	Phe	Lys	Glu	Gln	Arg	Met	Leu	Ile	Leu	Thr	Arg	Arg	Val	Gly	Glu
1			5					10					15		
Thr	Leu	Met	Ile	Gly	Asp	Glu	Val	Thr	Val	Thr	Val	Leu	Gly	Val	Lys
			20					25				30			
Gly	Asn	Gln	Val	Arg	Ile	Gly	Val	Asn	Ala	Pro	Lys	Glu	Val	Ser	Val
		35				40					45				
His	Arg	Glu	Glu	Ile	Tyr	Gln	Arg	Ile	Gln	Ala	Glu	Lys	Ser	Gln	Gln
	50					55					60				
Ser	Ser	Tyr													
65															

<210> 5959

<211> 89

<212> PRT

<213> Enterobacter cloacae

<400> 5959

Ile	Gln	Phe	Gly	Asn	Thr	Lys	Gly	Ala	His	Lys	Arg	Phe	Asp	Asn	Leu
1			5					10						15	
Gly	Arg	Trp	Gly	Thr	Pro	Ala	Leu	Ala	Val	Arg	Ala	Thr	Glu	Ile	Phe
			20					25				30			
Leu	Arg	Ser	Trp	Arg	Pro	His	Tyr	Gly	Ala	Ala	Leu	Pro	Gly	Ser	Ala
		35				40					45				
Glu	Glu	Asp	Gly	Asp	Arg	Tyr	Ile	Glu	Ile	Trp	Asn	Ile	Val	Phe	Met
	50					55				60					
Gln	Phe	Asn	Arg	Gln	Ala	Asp	Gly	Thr	Met	Glu	Pro	Leu	Pro	Lys	Thr
65				70				75						80	
Val	Arg	Arg	Tyr	Arg	Tyr	Gly	Pro								
				85											

<210> 5960

<211> 707

<212> PRT

<213> Enterobacter cloacae

<400> 5960

Ala	Gly	Gly	Gly	Pro	Arg	Pro	Leu	Arg	Tyr	Val	Pro	Pro	Arg	Phe	Phe
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1				5				10				15			
Tyr	Asp	His	Gly	Asp	His	Ile	Met	Gly	Arg	Pro	Ser	Arg	Glu	Ala	Arg
			20					25					30		
Lys	Lys	Met	Ala	Ile	Ala	Ile	Leu	Arg	Ser	Gly	Thr	Leu	Ser	Ser	Cys
		35					40					45			
Ser	Ser	Thr	Val	Arg	Arg	Thr	Ala	Pro	Trp	Ser	Arg	Cys	Pro	Lys	Pro
		50				55					60				
Ser	Val	Asp	Thr	Gly	Met	Gly	Leu	Glu	Arg	Ile	Ala	Ala	Val	Leu	Gln
65					70					75					80
His	Val	Asn	Ser	Asn	Tyr	Glu	Ile	Asp	Leu	Phe	Ser	Thr	Leu	Ile	Lys
				85					90					95	
Ala	Val	Ala	Glu	Val	Thr	Gly	Ala	Thr	Asp	Leu	Ser	Asn	Lys	Ser	Leu
			100					105					110		
Arg	Val	Ile	Ala	Asp	His	Ile	Arg	Ser	Cys	Ala	Phe	Leu	Ile	Ala	Asp
		115					120					125			
Gly	Val	Ile	Pro	Ser	Asn	Glu	Asn	Arg	Gly	Tyr	Val	Leu	Arg	Arg	Ile
		130				135					140				
Ile	Arg	Arg	Ala	Ile	Arg	His	Gly	Asn	Met	Leu	Gly	Ala	Lys	Asp	Thr
145					150					155					160
Phe	Phe	Tyr	Lys	Leu	Val	Gly	Pro	Leu	Ile	Gly	Val	Met	Gly	Ser	Ala
			165						170					175	
Gly	Asp	Glu	Leu	Lys	Arg	Gln	Gln	Ala	Gln	Val	Glu	Gln	Val	Leu	Lys
			180					185					190		
Thr	Glu	Glu	Glu	Gln	Phe	Ala	Arg	Thr	Leu	Glu	Arg	Gly	Leu	Ala	Leu
		195					200					205			
Leu	Asp	Asp	Glu	Leu	Ala	Lys	Leu	Lys	Gly	Asp	Thr	Leu	Asp	Gly	Glu
		210				215					220				
Thr	Ala	Phe	Arg	Leu	Tyr	Asp	Thr	Tyr	Gly	Phe	Pro	Val	Asp	Leu	Thr
225					230					235					240
Ala	Asp	Val	Cys	Arg	Glu	Arg	Asn	Ile	Lys	Val	Asp	Glu	Ala	Gly	Phe
			245						250					255	
Glu	Ala	Ala	Met	Glu	Glu	Gln	Arg	Arg	Ala	Arg	Glu	Ser	Ser	Gly	
			260					265				270			
Phe	Gly	Ala	Asp	Tyr	Asn	Ala	Met	Ile	Arg	Val	Asp	Ser	Ala	Ser	Glu
		275					280					285			
Phe	Lys	Gly	Tyr	Glu	Glu	Leu	Ala	Leu	Thr	Ser	Asn	Val	Thr	Ala	Leu
		290				295					300				
Phe	Val	Asp	Gly	Lys	Ala	Val	Asp	Ser	Ile	Ser	Ala	Gly	Gln	Asp	Ala
305					310					315					320
Val	Val	Ile	Leu	Asp	Lys	Thr	Pro	Phe	Tyr	Ala	Glu	Ser	Gly	Gly	Gln
			325						330					335	
Val	Gly	Asp	Lys	Gly	Glu	Leu	Lys	Gly	Asn	Gly	Phe	Ser	Phe	Ser	Val
			340					345					350		
Ser	Asp	Thr	Gln	Lys	Tyr	Gly	Gln	Ala	Ile	Gly	His	Gln	Gly	Lys	Leu
		355				360						365			
Val	Ser	Gly	Ser	Leu	Lys	Val	Gly	Glu	Gly	Val	Gln	Ala	Asn	Val	Asp
		370				375						380			
Glu	Ala	Arg	Arg	Ala	Arg	Ile	Arg	Leu	Asn	His	Ser	Ala	Thr	His	Leu
385					390					395					400
Met	His	Ala	Ala	Leu	Arg	Glu	Val	Leu	Gly	Thr	His	Val	Ala	Gln	Lys
				405					410					415	
Gly	Ser	Leu	Val	Asn	Asp	Lys	Val	Leu	Arg	Phe	Asp	Phe	Ser	His	Phe
			420					425					430		
Glu	Ala	Met	Lys	Pro	Ser	Glu	Ile	Arg	Ala	Val	Glu	Asp	Leu	Val	Asn
		435					440					445			
Ala	Gln	Ile	Arg	Arg	Asn	Leu	Pro	Ile	Glu	Thr	His	Ile	Met	Asp	Leu
		450				455					460				
Glu	Ala	Ala	Lys	Lys	Lys	Gly	Ala	Met	Ala	Leu	Phe	Gly	Glu	Lys	Tyr
465					470					475					480
Asp	Asp	Arg	Val	Arg	Val	Leu	Ser	Met	Gly	Asp	Phe	Ser	Thr	Glu	Leu
				485					490					495	

Cys Gly Gly Thr His Ala Ser Arg Thr Gly Asp Ile Gly Leu Phe Arg
 500 505 510
 Ile Val Ser Glu Ser Gly Thr Ala Ala Gly Val Arg Arg Ile Glu Ala
 515 520 525
 • Val Thr Gly Glu Gly Ala Ile Ala Ser Leu His Ala Gln Ser Asp Gln
 530 535 540
 Leu His Glu Ile Ala Gln Leu Leu Lys Gly Asp Ser Gln Asn Leu Gly
 545 550 555 560
 Glu Lys Val Arg Val Ala Leu Asp Arg Thr Arg Gln Leu Glu Lys Glu
 565 570 575
 Leu Gln Gln Leu Lys Glu Gln Ala Ala Ala Gln Glu Ser Ala Asn Leu
 580 585 590
 Ser Ser Lys Ala Val Asp Ile Lys Gly Val Lys Leu Leu Val Ser Asp
 595 600 605
 Leu Ala Gly Val Glu Pro Lys Met Leu Arg Thr Met Val Asp Asp Leu
 610 615 620
 Lys Asn Gln Leu Gly Ser Thr Val Ile Val Leu Ala Thr Val Ala Glu
 625 630 635 640
 Gly Lys Val Ser Leu Ile Ala Gly Val Ser Lys Asp Val Thr Asp Arg
 645 650 655
 Val Lys Ala Gly Glu Leu Ile Gly Met Val Ala Gln Gln Val Gly Gly
 660 665 670
 Lys Gly Gly Gly Arg Pro Asp Met Ala Gln Ala Gly Gly Thr Asp Ala
 675 680 685
 Ala Ala Leu Pro Ala Ala Leu Ala Ser Val Glu Ser Trp Val Ser Ala
 690 695 700
 Lys Leu
 705

<210> 5961

<211> 299

<212> PRT

<213> Enterobacter cloacae

<400> 5961

Val Ser Pro Leu Ile Gln Leu Leu Asp Arg Pro Ile Ala Tyr Gln Pro
 1 5 10 15
 Ala Phe Ala Gln Leu Arg Ala Gly Lys Val Lys Ser Gly Pro Ala Ala
 20 25 30
 Ala Val Leu Leu Ser Gln Leu Val Tyr Trp His Asn Arg Met Asp Gly
 35 40 45
 Glu Trp Leu Tyr Lys Thr Arg Glu Asp Ile Lys Lys Glu Thr Gly Leu
 50 55 60
 Ser Arg Asp Glu Gln Glu Thr Ala Arg Lys Arg Leu Val Ala Leu Gly
 65 70 75 80
 Val Leu Gln Glu Asp Leu Arg Gly Val Pro Ala Thr Val His Tyr Arg
 85 90 95
 Ile Asn Thr Glu Arg Leu Glu Ala Leu Leu Leu Ala Pro Gly Gln Ala
 100 105 110
 Glu Ser Gln Leu Gly Ala Thr Pro Pro Thr Arg Arg Arg Gln Pro Arg
 115 120 125
 Gln Gln Asp Gly Gly Asn Ala Pro Asn Lys Met Val Glu Thr Pro Pro
 130 135 140
 Thr Arg Arg Val Glu Pro Thr Gln Gln Val Gly Trp Val Pro Ala Asn
 145 150 155 160
 Phe Pro Thr Gly Asp Tyr Thr Glu Ile Thr Gln Glu Ser Thr Gln Glu
 165 170 175
 Ile Thr Gln Lys Ala Gly Glu Lys Asn Ser Val Asp Asn Phe Ser Glu
 180 185 190
 Ile Tyr Pro Glu Ala Glu Ile Phe Asp Ala Glu Lys Lys Thr Trp Gly
 195 200 205

Thr Ala Glu Asp Leu Glu Phe Ala Gln Trp Phe Phe Ala Arg Ile Val
 210 215 220
 Glu Leu His Glu Lys Ala Ala Glu Tyr Asp Gly Met Leu Ser Arg Pro
 225 230 235
 Lys Glu Pro Asp Trp Thr Gly Trp Ala Asp Glu Val Arg Gln Leu Arg
 245 250 255
 Glu Gly Gln Arg Cys Asp His Gln Ala Asp Ala Lys Pro Gly Arg Ala
 260 265 270
 Tyr Ser Ala Arg Pro Val Gly Gly Ala Arg Arg Phe Arg Leu Pro Lys
 275 280 285
 Cys Cys Thr Pro Asn Gly Gln Asn Trp Ser
 290 295

<210> 5962

<211> 219

<212> PRT

<213> Enterobacter cloacae

<400> 5962

Met Glu Thr Val Leu Asp Val Leu Lys Ala Met Gly Lys Thr Thr Tyr
 1 5 10 15
 Arg Asp Val Ala Arg Leu Asp Ile Glu Pro Val Val Ala Leu Asn
 20 25 30
 Met Leu Arg Glu Gln Lys Glu Gln Gly Leu Cys Asp Tyr Ala Asp Gly
 35 40 45
 Gly Trp Phe Leu Gly Thr Ala Ala Lys Gln Lys Pro Lys Arg Ile Arg
 50 55 60
 Pro Lys Gln Glu Ser Glu Leu Val Gly Arg Ile Leu Ala Val Met Gln
 65 70 75 80
 Gly Gln Gly Ala Ile Ser Ala Glu Lys Ile Ala Lys Leu Leu Gly Lys
 85 90 95
 Thr Ser Arg Ala Leu Asn Ala Ser Leu Gly Ala Leu Gly Lys Glu Gly
 100 105 110
 Arg Val Val Arg His Val Asp Gly Lys Asn Ile Thr Trp Ser Leu Lys
 115 120 125
 Asn Asp Asp Ala Pro Ala Pro Ala Thr Ala Ala Pro Ile Ala Asn Ala
 130 135 140
 Arg Gln Ala Glu Ser Ala Leu Ala Glu Lys Ser Thr Ala Gln Ile Ile
 145 150 155 160
 Glu Glu Ile Pro Ala Phe Thr Ala Arg Pro Asn Asp Leu Ala Ile Pro
 165 170 175
 Ser Ser Arg Phe Ile Ser Ser Glu Ile Arg Arg Thr Lys Ala Lys Leu
 180 185 190
 Ala Ser Leu Gln Lys Leu Gln Cys Ala Ala Arg Gln Leu Arg Arg His
 195 200 205
 Lys His Leu Leu Val Gly Leu Asp Asn Glu
 210 215

<210> 5963

<211> 139

<212> PRT

<213> Enterobacter cloacae

<400> 5963

Leu Met Glu Ile Lys His Glu His Ile Gln Cys Val Leu Leu Ala Trp
 1 5 10 15
 Ala Ala Glu Val Gly Gln Ala His Ala Ala Glu Ala Ile Thr Ala Glu
 20 25 30
 Tyr Thr Arg Gln Gly Gly Ala Glu Leu Pro Leu Val Ala Gly Asn Thr
 35 40 45
 Trp Asn Asn Gln Gln Asn Ile Phe His Arg Trp Leu Asp Gly Ser Thr

50		55		60											
Pro	Gln	Arg	Arg	Ala	Lys	Ile	Arg	Glu	Leu	Leu	Pro	Ala	Ile	Leu	Ala
65					70					75					80
Val	Leu	Pro	Arg	Ser	Ile	Arg	His	Arg	Leu	Ser	Ile	Tyr	Asp	Thr	Ile
				85					90					95	
Glu	Arg	Arg	Ala	Leu	Leu	Ala	Ala	Gln	Asp	Ala	Leu	Gly	Ala	Ala	Ile
			100					105					110		
Asp	Ala	His	Asp	Asp	Ala	Val	Glu	Ala	Leu	Phe	Gln	Lys	Val	Met	Gln
		115					120					125			
His	Ala	Ala	Ala	Asp	Ser	Pro	Lys	Phe	His						
130						135									

<210> 5964

<211> 126

<212> PRT

<213> Enterobacter cloacae

<400> 5964

Val	His	Arg	Gly	Asp	Val	Val	Ser	Val	Lys	Cys	Cys	Gly	Cys	Gln	Glu
1				5					10					15	
Leu	Leu	Glu	Glu	Asp	Glu	Val	Phe	Lys	Leu	Ala	Asp	Ser	Cys	Gly	Val
			20					25					30		
Asp	Ile	Cys	Asp	Arg	Cys	Ala	Ser	Arg	Val	Val	His	Ser	Tyr	Asn	Glu
		35					40					45			
Trp	His	Gly	Gly	Phe	Ser	Tyr	Ala	Pro	Val	Lys	Gln	Lys	Asn	Pro	Arg
	50					55					60				
Lys	Ser	Ile	Ser	Ala	Ala	Val	Lys	Leu	Lys	Ile	Phe	Gln	Arg	Asp	Gly
65					70				75					80	
Phe	Arg	Cys	Lys	His	Cys	Gly	Thr	Ser	Glu	Ala	Leu	Thr	Ile	Asp	His
				85					90					95	
Ile	Gln	Pro	Val	Ser	Lys	Gly	Gly	Ser	Asn	Gln	Asp	Glu	Asn	Leu	Gln
			100					105					110		
Thr	Leu	Cys	Ala	Ser	Cys	Asn	Ser	Arg	Lys	Gly	Val	Lys			
		115					120					125			

<210> 5965

<211> 205

<212> PRT

<213> Enterobacter cloacae

<400> 5965

Arg	Lys	Asn	Gly	Leu	Ala	Tyr	Ile	Asn	Ala	Val	Tyr	Pro	Phe	Asn	Phe
1				5					10					15	
Ile	Ile	Pro	Leu	Gly	Ile	Ser	Ala	Cys	Leu	Ala	Tyr	Ile	Leu	Pro	Ile
			20					25					30		
Ile	Asn	Glu	Lys	Ile	Thr	Tyr	Leu	Gln	Ser	Arg	Pro	Ile	Ser	Arg	Thr
		35				40					45				
Ala	Ile	Leu	Leu	Ser	Ile	Arg	Ala	Lys	Lys	Ala	Leu	Val	Ala	Asp	Ile
	50					55					60				
Ser	Leu	Glu	Lys	Tyr	Arg	Ala	Lys	Arg	Asp	Val	Thr	Tyr	Glu	Arg	His
65					70				75					80	
Val	Ala	Gly	Ala	Glu	Lys	Glu	Ile	Gln	Asp	Met	Arg	Glu	Glu	Ile	Val
			85					90					95		
Asn	Ser	Lys	Glu	Arg	Val	Gly	Glu	Met	Asn	Ala	Ala	Leu	Leu	Glu	Leu
			100				105					110			
Asn	Gln	Lys	Asn	Asp	Glu	Ile	Asn	Ala	Leu	Leu	Gln	Asp	Ser	Asn	Ile
		115				120					125				
Arg	Asn	Lys	Lys	Leu	Ser	Asp	Glu	Ile	Glu	Arg	His	Lys	Ile	Ala	Glu
	130					135					140				
Thr	Arg	Phe	Phe	Gly	Glu	Ile	Glu	Asp	Leu	Asn	Lys	Glu	Leu	Asp	Arg
145					150					155					160

Leu Tyr Ser Leu Leu Lys Met Glu Pro Thr Arg Gly Val Gly Leu Gly
 165 170 175
 Ile Arg Lys Ile Thr Thr Ile Asn Gly Glu Glu Asn Ser Asp Thr Asp
 180 185 190
 Asp Thr Gln Tyr Arg Pro Gly Ser Asn Glu Asp Lys
 195 200 205

<210> 5966

<211> 242

<212> PRT

<213> Enterobacter cloacae

<400> 5966

Val Ala Asn Met Gln Thr Pro His Ile Leu Ile Val Glu Asp Glu Leu
 1 5 10 15
 Val Thr Arg Asn Thr Leu Lys Ser Ile Phe Glu Ala Glu Gly Tyr Asp
 20 25 30
 Val Phe Glu Ala Thr Asp Gly Ala Glu Met His Gln Ile Leu Ser Glu
 35 40 45
 Asn Asp Ile Asn Leu Val Ile Met Asp Ile Asn Leu Pro Gly Lys Asn
 50 55 60
 Gly Leu Leu Leu Ala Arg Glu Leu Arg Glu Gln Ala Asn Val Ala Leu
 65 70 75 80
 Met Phe Leu Thr Gly Arg Asp Asn Glu Val Asp Lys Ile Leu Gly Leu
 85 90 95
 Glu Ile Gly Ala Asp Asp Tyr Ile Thr Lys Pro Phe Asn Pro Arg Glu
 100 105 110
 Leu Thr Ile Arg Ala Arg Asn Leu Leu Ser Arg Thr Met Asn Leu Gly
 115 120 125
 Thr Val Ser Glu Glu Arg Arg Ser Val Asp Ser Tyr Lys Phe Asn Gly
 130 135 140
 Trp Glu Leu Asp Ile Asn Ser Arg Ser Leu Ile Ser Pro Asn Gly Glu
 145 150 155 160
 Gln Tyr Lys Leu Pro Arg Ser Glu Phe Arg Ala Met Leu His Phe Cys
 165 170 175
 Glu Asn Pro Gly Lys Ile Gln Ser Arg Ala Glu Leu Leu Lys Lys Met
 180 185 190
 Thr Gly Arg Glu Leu Lys Pro His Asp Arg Thr Val Asp Val Thr Ile
 195 200 205
 Arg Arg Ile Arg Lys His Phe Glu Ser Thr Pro Asp Thr Pro Glu Ile
 210 215 220
 Ile Ala Thr Ile His Gly Glu Gly Tyr Arg Phe Cys Gly Asp Leu Gln
 225 230 235 240
 Glu

<210> 5967

<211> 229

<212> PRT

<213> Enterobacter cloacae

<400> 5967

Met His Leu Ser Ile Val Leu Val Ala Pro Ala Arg Ala Glu Asn Ile
 1 5 10 15
 Gly Ala Ala Ala Arg Ala Met Lys Thr Met Gly Phe Thr Asp Leu Arg
 20 25 30
 Ile Val Asp Ser Thr Ala His Leu Glu Pro Ala Ala Arg Trp Val Ala
 35 40 45
 His Gly Ser Gly Asp Ile Leu Asp Asn Ile Thr Thr Tyr Ala Thr Leu
 50 55 60
 Ala Asp Ala Leu His Asp Ile Ser Phe Thr Val Ala Thr Thr Ala Arg

65					70					75				80	
Ser	Arg	Ala	Lys	Phe	His	Tyr	Tyr	Ala	Thr	Pro	Ala	Glu	Leu	Val	Pro
				85					90					95	
Met	Leu	Glu	Glu	Lys	Ser	Gln	Trp	Leu	Glu	Lys	Ala	Ala	Leu	Val	Phe
			100					105					110		
Gly	Arg	Glu	Asp	Ser	Gly	Leu	Thr	Asn	Glu	Glu	Leu	Ala	Leu	Ala	Asp
		115					120					125			
Val	Leu	Thr	Gly	Ala	Pro	Met	Val	Ala	Asp	Tyr	Pro	Ser	Leu	Asn	Leu
		130				135					140				
Gly	Gln	Ala	Val	Met	Val	Tyr	Cys	Tyr	Gln	Leu	Ala	Ser	Leu	Ile	Gln
145					150				155					160	
Ile	Ser	Gln	Pro	Pro	Val	Thr	Val	Ser	Asp	Glu	Asn	Gln	Leu	Ala	Ala
			165					170					175		
Leu	Arg	Val	Arg	Ala	Asp	Lys	Leu	Leu	Ala	Gln	Leu	Gly	Val	Ala	Asp
		180					185					190			
Asp	Gln	Lys	Met	Val	Asp	Trp	Leu	Gln	Gln	Arg	Leu	Gly	Arg	Leu	Glu
		195				200					205				
Gln	Arg	Asp	Thr	Val	Met	Leu	His	Arg	Leu	Leu	His	Asp	Ile	Glu	Lys
	210					215					220				
Lys	Leu	Ala	Glu												
225															

<210> 5968

<211> 160

<212> PRT

<213> Enterobacter cloacae

<400> 5968

Gly	Asn	Asn	Met	Lys	Tyr	Lys	Val	Leu	Val	Phe	Ala	Ala	Leu	Ala	Leu
1				5				10					15		
Met	Ala	Gly	Arg	Val	Ala	Gln	Ala	Glu	Gln	Ile	Gly	Ser	Val	Asp	Thr
		20					25					30			
Val	Phe	Lys	Met	Phe	Gly	Pro	Asp	His	Lys	Ile	Val	Val	Glu	Ala	Phe
		35				40					45				
Asp	Asp	Pro	Asp	Val	Lys	Asn	Val	Thr	Cys	Tyr	Val	Ser	Arg	Ala	Lys
	50				55					60					
Thr	Gly	Gly	Ile	Lys	Gly	Gly	Leu	Gly	Leu	Ala	Glu	Asp	Thr	Ser	Asp
65				70				75					80		
Ala	Ala	Ile	Ser	Cys	Gln	Gln	Val	Gly	Pro	Val	Glu	Leu	Ser	Asp	Lys
			85					90					95		
Ile	Lys	Asn	Gly	Lys	Ala	Gln	Gly	Asp	Val	Val	Phe	Gln	Lys	Arg	Thr
		100					105					110			
Ser	Leu	Val	Phe	Lys	Lys	Leu	Gln	Val	Val	Arg	Phe	Tyr	Asp	Ala	Lys
		115				120					125				
Arg	Asn	Thr	Leu	Ala	Tyr	Leu	Ala	Tyr	Ser	Asp	Lys	Val	Val	Glu	Gly
	130				135					140					
Ser	Pro	Lys	Asn	Ala	Ile	Ser	Ala	Val	Pro	Ile	Met	Pro	Trp	His	
145					150					155				160	

<210> 5969

<211> 288

<212> PRT

<213> Enterobacter cloacae

<400> 5969

Lys	Lys	Cys	Leu	Ser	Ala	Leu	Arg	Gln	Ile	Leu	Glu	Lys	Ser	Thr	Arg
1				5				10					15		
Leu	Ile	Met	Ser	Gly	Ser	Ser	Gln	Asp	Asp	Phe	Thr	Gly	Ala	Asp	Met
		20					25					30			
Phe	Arg	Arg	Leu	Arg	Asp	Ile	Ile	Lys	Arg	Gly	Val	Val	Lys	Glu	Val
		35				40					45				

Gln	Met	Gln	Pro	Pro	Arg	Val	Arg	Val	Thr	Phe	Gly	Gly	Glu	His	Gln
	50					55					60				
Ser	Gly	Trp	Leu	Gln	Trp	Phe	Thr	Leu	Ala	Thr	Ser	Glu	Arg	Val	Asp
65					70					75					80
Trp	Ser	Ala	Pro	Lys	Val	Gly	Asp	Pro	Val	Pro	Pro	Asn	Ser	Thr	Ala
				85					90					95	
Ala	Glu	Arg	Ala	Leu	Glu	Ala	Val	Leu	Ser	His	Val	Gly	Asp	Leu	Pro
			100					105					110		
Gly	Asp	Ile	Arg	Ile	Ile	Lys	Asn	Pro	Asp	Leu	Cys	Pro	Val	Asp	Leu
	115						120					125			
Leu	Pro	Trp	Leu	Ala	Trp	Glu	Tyr	Ala	Val	Thr	Tyr	Trp	Asn	Ser	Gly
	130					135					140				
Trp	Ser	Glu	Gln	Gln	Lys	Arg	Gln	Val	Ile	Lys	Ala	Ala	Ala	Trp	Gln
145					150					155					160
Asn	Lys	His	Arg	Gly	Thr	Arg	Gly	Ala	Val	Glu	Arg	Ala	Leu	Leu	Thr
				165					170					175	
Val	Gly	Tyr	Glu	Ser	Gln	Leu	Gln	Glu	Trp	Phe	Glu	Lys	Val	Pro	Lys
			180					185					190		
Gly	Asp	Pro	Tyr	Thr	Phe	Gly	Ile	Lys	Ile	Tyr	Leu	Leu	Lys	Gln	Met
	195						200					205			
Gly	Met	Asp	Leu	Asp	Leu	Leu	Asn	Thr	Phe	Ile	Ala	Gln	Ile	Phe	Asp
	210					215					220				
Ala	Lys	Asn	Cys	Arg	Ser	Leu	Leu	Glu	Ser	Ile	Asn	Phe	Glu	Ala	Glu
225					230					235					240
Ile	Asp	Gly	Glu	Phe	Tyr	Ile	Ala	Gly	Thr	Thr	Ala	Ala	Asp	Val	Val
				245					250					255	
Val	Glu	Ile	Pro	Ala	Glu	Asp	Glu	Gly	Gly	Val	Lys	Val	Asn	Gly	Ser
			260				265						270		
Leu	Phe	Ile	Ser	Gly	Val	Pro	Thr	Ala	His	Ile	Thr	Val	Glu	Ile	
	275						280					285			

<210> 5970

<211> 280

<212> PRT

<213> Enterobacter cloacae

<400> 5970

Gly	Gly	Ser	Lys	Ser	Lys	Arg	Leu	Pro	Val	Tyr	Phe	Gly	Cys	Thr	Asp
1			5						10					15	
Ser	Ser	Tyr	His	Ser	Gly	Asn	Ile	Glu	Met	Val	Gln	Lys	Arg	Thr	Ala
			20					25					30		
Leu	Lys	Ser	Ala	Thr	Ser	Thr	Pro	Asp	Asp	Lys	Ile	Tyr	Ala	Ile	Leu
		35					40					45			
Thr	Asp	Arg	Gly	Ala	Glu	Leu	Glu	Ala	Ala	Ala	Leu	Ala	Thr	Gly	Val
	50					55					60				
Pro	Val	Lys	Leu	Thr	Lys	Phe	Val	Ile	Gly	Asp	Ala	Asn	Gly	Gln	Glu
65					70					75					80
Glu	Val	Thr	Pro	Asp	Pro	Ala	Arg	Thr	Ala	Leu	Ile	His	Glu	Val	Tyr
				85					90					95	
Arg	Gly	Asp	Ile	Asn	Gly	Ala	Glu	Ser	Lys	Gly	Asn	Gln	Val	Thr	Phe
			100					105					110		
Thr	Leu	Asp	Val	Pro	Pro	Glu	Thr	Gly	Gly	Tyr	Thr	Ile	Arg	Glu	Val
		115					120					125			
Gly	Ile	Leu	Thr	Glu	Ala	Gly	Glu	Leu	Tyr	Ser	Val	Ala	Arg	Ser	Pro
	130					135					140				
Asp	Ile	Leu	Lys	Pro	Thr	Glu	Ser	Asn	Gly	Ala	Val	Ile	Ser	Ile	Thr
145					150					155					160
Phe	Lys	Tyr	Ile	Leu	Ala	Val	Ser	Ser	Thr	Ser	Thr	Val	Thr	Val	Val
				165					170					175	
Val	Tyr	Asn	Asp	Tyr	Leu	Thr	Pro	Asp	Ala	Ala	Asp	Ala	Arg	Tyr	Leu
			180					185					190		

Lys Val Asn Ala Asn Leu Lys Glu Ile Ala Asp Asn Gly Ala Ser Ser
 195 200 205
 Gln Gln Leu Ala Arg Lys Asn Ile Gly Ile Asp Gly Asp Ile Ala Tyr
 210 215 220
 Arg Asp Lys Glu Asn Ile Phe Thr Lys Lys Asn Thr Phe Gly Glu Ile
 225 230 235 240
 Leu Tyr Val Asn Lys Ser Ile Val Leu Ser Gly Asp Trp Ala Val Ser
 245 250 255
 Trp Ser Leu Ala Gly Ala Tyr Ile Glu Ala Tyr Leu Val His Ser Lys
 260 265 270
 Leu Pro Asp Arg Leu Phe Ser Thr
 275 280

<210> 5971

<211> 119

<212> PRT

<213> Enterobacter cloacae

<400> 5971

Arg Cys Arg Ala Ala Leu Leu Gln Ala Ile Leu Asp Gly Val Ala Gln
 1 5 10 15
 His Gly Pro Tyr Phe Val Ile Ala Pro Gly Leu Ala Met Pro His Gly
 20 25 30
 Arg Pro Glu Glu Gly Val Lys Lys Thr Gly Phe Ala Leu Val Thr Leu
 35 40 45
 Lys Thr Pro Leu Val Phe Asn His Glu Asp Asn Asp Pro Val Asp Ile
 50 55 60
 Leu Ile Thr Met Ala Ala Val Asp Ala Asn Thr His Gln Glu Val Gly
 65 70 75 80
 Ile Met Gln Ile Val Asn Leu Phe Asp Asp Glu Ala Asn Phe Asp Arg
 85 90 95
 Leu Arg Ala Cys Arg Thr Ala Gln Asp Val Leu Asp Leu Ile Asp Asn
 100 105 110
 Ala Thr Ala Ala Ala Val
 115

<210> 5972

<211> 221

<212> PRT

<213> Enterobacter cloacae

<400> 5972

Glu Glu Leu Lys Met Ser Leu Pro Met Leu Gln Val Ala Leu Asp Asn
 1 5 10 15
 Gln Thr Leu Ser His Ala Tyr Glu Thr Thr Arg Leu Ile Ala Glu Glu
 20 25 30
 Val Asp Ile Ile Glu Val Gly Thr Ile Leu Cys Val Gly Glu Gly Val
 35 40 45
 Arg Ala Val Arg Asp Leu Lys Ala Leu Tyr Pro His Lys Ile Val Leu
 50 55 60
 Ala Asp Ala Lys Ile Ala Asp Ala Gly Lys Ile Leu Ser Arg Met Cys
 65 70 75 80
 Phe Glu Ala Asn Ala Asp Trp Val Thr Val Ile Cys Cys Ala Asp Ile
 85 90 95
 Asn Thr Ala Lys Gly Ala Leu Asp Val Ala Lys Glu Phe Asn Gly Asp
 100 105 110
 Val Gln Ile Glu Leu Thr Gly Phe Thr Thr Trp Glu Gln Ala Gln Glu
 115 120 125
 Trp Arg Glu Ala Gly Ile Gln Gln Val Val Tyr His Arg Ser Arg Asp
 130 135 140
 Ala Gln Ala Ala Gly Val Ala Trp Gly Glu Ala Asp Ile Ser Ala Ile

145					150				155				160		
Lys	Arg	Leu	Ala	Asp	Met	Gly	Phe	Lys	Val	Thr	Val	Thr	Gly	Gly	Leu
				165					170					175	
Ala	Leu	Glu	Asp	Leu	Pro	Leu	Phe	Lys	Gly	Ile	Pro	Ile	His	Val	Phe
			180					185					190		
Ile	Ala	Gly	Arg	Ser	Ile	Arg	Asp	Ala	Glu	Ser	Pro	Val	Glu	Ala	Ala
		195					200					205			
Arg	Gln	Phe	Lys	Arg	Ser	Ile	Ala	Gln	Leu	Trp	Gly				
	210					215					220				

<210> 5973

<211> 290

<212> PRT

<213> Enterobacter cloacae

<400> 5973

Gly	Ala	Gly	Met	Leu	Ser	Lys	Gln	Val	Pro	Leu	Gly	Ile	Tyr	Glu	Lys
1				5					10					15	
Ala	Leu	Pro	Ala	Gly	Glu	Cys	Trp	Leu	Glu	Arg	Leu	Gln	Leu	Ala	Lys
			20					25					30		
Gln	Leu	Gly	Phe	Asp	Phe	Val	Glu	Met	Ser	Leu	Asp	Glu	Thr	Asp	Glu
		35					40					45			
Arg	Leu	Ala	Arg	Leu	Asp	Trp	Ser	Arg	Asp	Gln	Arg	Leu	Ala	Leu	Val
	50					55					60				
Ser	Ala	Ile	Ala	Glu	Thr	Gly	Val	Arg	Val	Pro	Ser	Met	Cys	Leu	Ser
65					70					75					80
Ala	His	Arg	Arg	Phe	Pro	Leu	Gly	Ser	Glu	Asp	Asp	Ala	Val	Arg	Ala
				85					90					95	
Glu	Gly	Leu	Glu	Ile	Met	Arg	Lys	Ala	Ile	Arg	Phe	Ala	Gln	Asp	Val
		100						105					110		
Gly	Ile	Arg	Val	Ile	Gln	Leu	Ala	Gly	Tyr	Asp	Val	Tyr	Tyr	Gln	Glu
		115					120					125			
Ala	Asn	Asp	Glu	Thr	Arg	Arg	Arg	Phe	Arg	Asp	Gly	Leu	Lys	Glu	Ser
	130					135					140				
Val	Glu	Met	Ala	Ser	Arg	Ala	Gln	Val	Thr	Leu	Ala	Met	Glu	Ile	Met
145					150					155					160
Asp	Tyr	Pro	Leu	Met	Asn	Ser	Ile	Ser	Lys	Ala	Leu	Gly	Tyr	Ala	His
				165					170					175	
Tyr	Leu	Asn	Asn	Pro	Trp	Phe	Gln	Leu	Tyr	Pro	Asp	Ile	Gly	Asn	Leu
		180						185					190		
Ser	Ala	Trp	Asp	Asn	Asp	Val	Gln	Met	Glu	Leu	Gln	Ala	Gly	Ile	Gly
		195					200					205			
His	Ile	Val	Ala	Val	His	Val	Lys	Asp	Thr	Arg	Pro	Gly	Val	Phe	Lys
	210					215					220				
Asn	Val	Pro	Phe	Gly	Thr	Gly	Val	Val	Asp	Phe	Glu	Arg	Cys	Phe	Gln
225					230					235					240
Thr	Leu	Lys	Gln	Thr	Gly	Tyr	Cys	Gly	Pro	Tyr	Leu	Ile	Glu	Met	Trp
				245					250					255	
Ser	Glu	Thr	Ala	Asp	Asp	Pro	Ala	Ala	Glu	Val	Ala	Lys	Ala	Arg	Asp
			260					265					270		
Trp	Val	Cys	Glu	Arg	Met	Ala	Arg	Ala	Gly	Leu	Met	Glu	Ala	Glu	His
		275					280					285			

Ala

290

<210> 5974

<211> 218

<212> PRT

<213> Enterobacter cloacae

<400> 5974

```

Thr Trp Cys Gln Ala Asp Gly Arg Val Lys Pro Gln Leu Ala Val Leu
1      5      10
Tyr Pro Cys Lys Pro Gly Leu Ser Leu Ser Arg Trp Pro Phe Val Ile
      20      25      30
Ile His Pro Arg Gly Val Arg Met Phe Val Ala Glu Leu Ser Glu Ala
      35      40      45
Phe Asn Gly Ile Ser Gln Arg Leu Ile Pro Gly Ala Val Leu Ala Ile
      50      55      60
Asp Cys Ala Ala Ile Tyr Ser Phe Ala Pro Asn Ala Val Val Trp Gly
65      70      75      80
Phe Met Trp Gly Thr Ile Gly Gln Leu Ile Ala Val Gly Ile Leu Val
      85      90      95
Gly Cys Gly Ser Ser Ile Leu Ile Ile Pro Gly Phe Ile Pro Met Phe
      100      105      110
Phe Ser Asn Ala Thr Ile Gly Val Phe Ala Asn His Phe Gly Gly Trp
      115      120      125
Arg Ala Ala Leu Lys Ile Cys Leu Val Met Gly Met Val Glu Ile Phe
      130      135      140
Gly Cys Val Trp Ala Val Lys Leu Thr Gly Met Ser Ala Trp Met Gly
145      150      155      160
Met Ala Asp Trp Ser Ile Leu Ala Pro Pro Met Met Gln Gly Phe Ala
      165      170      175
Ser Val Gly Leu Val Phe Met Ala Val Ile Ile Leu Ile Ala Leu Ala
      180      185      190
Tyr Met Phe Phe Ala Gly Arg Ser Leu Arg Ala Glu Glu Asp Ala Glu
      195      200      205
Lys Gln Thr Ala Glu Val Ser Ala His
      210      215

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<210> 5975

<211> 106

<212> PRT

<213> Enterobacter cloacae

<400> 5975

```

Gly Val Ser Ile Met Thr Val Arg Ile Leu Ala Val Cys Gly Asn Gly
1      5      10      15
Gln Gly Ser Ser Met Ile Met Lys Met Lys Val Asp Gln Phe Leu Thr
      20      25      30
Gln Ser Asn Ile Asp His Thr Val Asn Ser Cys Ala Val Gly Glu Tyr
      35      40      45
Lys Ser Glu Leu Asn Gly Ala Asp Ile Ile Ile Ala Ser Thr His Ile
      50      55      60
Ala Gly Glu Ile Ser Val Ser Gly Asn Lys Tyr Val Val Gly Val Arg
65      70      75      80
Asn Met Leu Ser Pro Ala Asp Phe Gly Pro Lys Leu Leu Glu Val Ile
      85      90      95
Lys Glu His Phe Pro Gln Asp Val Lys
      100      105

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<210> 5976

<211> 62

<212> PRT

<213> Enterobacter cloacae

<400> 5976

```

Gly Cys His Met Lys Leu Arg Asp Ser Leu Ala Glu Asn Asn Ser Ile
1      5      10      15
Leu Leu Gln Ala Glu Ala Ser Thr Trp Gln Glu Ala Val Lys Leu Ser
      20      25      30
Val Asp Leu Leu Val Lys Ala Asp Val Val Glu Pro Arg Tyr Tyr Arg

```


<400> 5978															
Lys	Ser	Ala	Arg	Tyr	Ser	Phe	Asn	Lys	Arg	Val	Arg	Thr	Ala	Ile	Phe
1				5					10					15	
Ser	Tyr	Met	Asp	Cys	Leu	Leu	Ser	Glu	Arg	Arg	Met	Pro	Met	Gln	Asn
			20					25					30		
Lys	Lys	Thr	Ile	His	Val	Ala	Val	Val	Asp	Ser	Cys	Glu	Phe	Thr	Met
		35					40					45			
Ile	Gly	Leu	Gln	Ser	Leu	Gly	Lys	Arg	Glu	Pro	Asp	Glu	Lys	His	Asp
	50					55					60				
Val	Ile	Phe	His	Gly	Phe	Thr	His	Ile	Glu	Glu	Leu	Ala	Met	Ser	Glu
65				70					75						80
Gln	Leu	Phe	Asp	Ile	Ile	Tyr	Asp	Pro	Leu	Asn	Thr	Arg	His	Phe	
				85				90					95		
Arg	Val	Thr	Thr	Asn	Asp	Asp	Ile	Leu	Cys	Ile	Lys	Gln	Lys	Gln	Val
			100					105					110		
Thr	Ala	Lys	Ile	Tyr	Ile	Tyr	Ser	Leu	Ser	Ala	Gly	Tyr	Leu	Lys	Phe
		115					120					125			
Lys	His	Val	Asp	Gly	Val	Ile	Ser	Lys	Arg	Val	Ser	Leu	Gly	Asp	Ile
	130					135					140				
Lys	Ala	Leu	Trp	Gln	Ile	Leu	Met	Ser	Gln	Thr	Pro	Gln	Glu	Ser	Gly
145					150					155					160

Arg	Tyr	Asn	Val	Gly	Met	Thr	Thr	Arg	Leu	Arg	Thr	Pro	Ala	Arg	Leu
				165					170					175	
Ser	Ser	Glu	Glu	Ala	Ser	Val	Leu	Arg	Gly	Tyr	Ser	Cys	Asn	Leu	Lys
			180					185					190		
Thr	Lys	Gln	Ile	Ala	Arg	Gln	Leu	Gly	Cys	Asn	Val	Arg	Leu	Val	Tyr
		195					200				205				
Phe	Tyr	Lys	Asn	Asn	Ala	Met	Asn	Lys	Leu	Lys	Ala	Val	Arg	Gly	Pro
	210					215					220				
Ser	Phe	Tyr	Gln	Ser	Ile	Arg	Trp	Ile	Leu	Asn					
225					230					235					

<210> 5979

<211> 254

<212> PRT

<213> Enterobacter cloacae

<400> 5979

Ile	Lys	Asn	Leu	Thr	Val	Cys	Arg	Leu	Pro	Phe	Val	Pro	Val	Ser	Ala
1				5				10						15	
Gly	Thr	Phe	Phe	Ser	Phe	Ser	Glu	Gly	Cys	Ser	Met	Tyr	Thr	Val	Leu
		20						25					30		
Pro	Ser	Pro	Leu	Leu	Gln	Arg	Ile	Ser	Gly	Leu	Arg	Phe	Gln	Pro	Leu
		35					40					45			
Val	Asp	Leu	His	Ser	Gly	Gln	Val	Phe	Ala	His	Glu	Val	Leu	Val	Glu
	50					55				60					
Ile	Arg	Asn	Val	Asn	Leu	Glu	Val	Leu	Phe	Ala	Ser	Leu	Pro	Ser	Arg
65				70					75					80	
Ser	Ala	Leu	Gln	Ile	Phe	Phe	Trp	Gln	Ala	Asn	Thr	Leu	Leu	Gln	Ile
			85					90						95	
Pro	Ala	Arg	Asp	Gly	Tyr	Trp	Leu	Asn	Leu	Pro	Ala	Glu	His	Leu	Leu
			100					105					110		
Asp	Glu	Arg	Ala	Ile	Arg	Leu	Leu	Ala	Leu	Arg	His	Gln	Gln	Arg	
		115					120				125				
Leu	Thr	Ile	Glu	Ile	Gln	Asp	Pro	Leu	Thr	Ile	Thr	Arg	Leu	Ser	Glu
	130				135						140				
Ala	Glu	Gln	Arg	His	Leu	His	Ala	Thr	Leu	Val	Arg	Leu	Lys	Glu	Ala
145				150					155					160	
Gly	Trp	Gln	Ile	Trp	Leu	Asp	Asp	Leu	Thr	Arg	Glu	Leu	Ala	Glu	Ala
			165					170						175	
Phe	Ala	Arg	Leu	Ala	Leu	Pro	Leu	Asp	Gly	Val	Lys	Ile	Asp	Arg	Ser
			180				185						190		
Ala	Leu	Arg	Glu	Arg	Ala	Pro	Leu	Ala	Pro	Phe	Val	Gln	Glu	Val	Arg
		195					200				205				
Thr	Gly	Ile	Ala	Gln	Ser	Ile	Leu	Ile	Glu	Gly	Ile	Glu	Asn	Ser	Arg
	210					215					220				
Asp	Leu	Ala	Arg	Ala	Arg	Thr	Ser	Gly	Ala	Gln	Ser	Gly	Gln	Gly	Phe
225				230					235						240
Leu	Trp	Pro	Glu	Ser	Arg	Thr	Asp	Ala	Arg	Val	Thr	Leu			
				245					250						

<210> 5980

<211> 62

<212> PRT

<213> Enterobacter cloacae

<400> 5980

Gly	Gly	Asn	Asp	Ala	Arg	His	Ile	Lys	Val	Gly	Val	Ile	Asn	Gly	Ala
1				5				10						15	
Glu	Gln	Asp	Val	Ala	Glu	Val	Ala	Lys	Lys	Val	Ala	Lys	Glu	Lys	Tyr
		20						25					30		
Gly	Leu	Asp	Val	Glu	Leu	Val	Gly	Phe	Ser	Gly	Ser	Leu	Leu	Pro	Asn

	35					40					45
Asp	Ala	Thr	Asn	Gln	Gly	Glu	Leu	Asp	Ala	Asn	Val
	50					55					60

<210> 5981
 <211> 185
 <212> PRT
 <213> Enterobacter cloacae

<400> 5981
 His Arg Pro Phe Leu Ala Glu Asp Asn Lys Ala His Asn Tyr Lys Leu
 1 5 10 15
 Val Ala Val Ala Asn Thr Phe Val Phe Pro Met Ala Gly Tyr Ser Arg
 20 25 30
 Lys Ile Lys Ser Val Ser Glu Leu Lys Asp Gly Ala Thr Ile Ala Ile
 35 40 45
 Pro Asn Asp Pro Thr Asn Leu Gly Arg Ala Leu Leu Leu Leu Gln Lys
 50 55 60
 Glu Lys Leu Ile Thr Leu Lys Pro Asp Val Gly Leu Leu Pro Thr Ala
 65 70 75 80
 Leu Asp Ile Thr Ala Asn Pro Lys Asn Leu Gln Ile Met Glu Leu Glu
 85 90 95
 Gly Ala Gln Leu Pro Arg Val Leu Asp Asp Pro Lys Val Asp Val Ala
 100 105 110
 Ile Ile Ser Thr Thr Tyr Leu Gln Gln Thr Gly Leu Ser Pro Val His
 115 120 125
 Asp Ser Val Phe Ile Glu Asp Lys Asn Ser Pro Tyr Val Asn Ile Val
 130 135 140
 Val Thr Arg Glu Asp Asn Lys Asp Ala Glu Asn Val Lys Glu Phe Ile
 145 150 155 160
 Gln Ser Tyr Gln Ser Pro Glu Val Ala Lys Ala Ala Glu Thr Leu Phe
 165 170 175
 Asn Gly Gly Ala Val Pro Gly Trp
 180 185

<210> 5982
 <211> 80
 <212> PRT
 <213> Enterobacter cloacae

<400> 5982
 Thr Pro His Gly Val Thr Gly Cys Leu Pro Lys Leu Arg Pro Ser Pro
 1 5 10 15
 Pro Pro Cys Gly Trp Ser Thr Gly Phe Ile Ala Val Pro Arg Thr Val
 20 25 30
 Gly Arg Thr Pro Arg Gln Arg Ala Ala Pro Ala Leu Pro Arg Thr Arg
 35 40 45
 Ser Ile Cys Ser Ala Leu Pro Thr Ser Pro Arg Val Ala Arg Gln Ser
 50 55 60
 Ala Ser Thr Leu Arg Ile Ser Pro Glu Arg Arg Arg Arg Val Thr
 65 70 75 80

<210> 5983
 <211> 79
 <212> PRT
 <213> Enterobacter cloacae

<400> 5983
 Phe Ser Ser Arg Leu Val Lys Thr Lys Leu Leu Ala Gln Lys Leu Lys
 1 5 10 15
 Asp Met Ala Leu Glu Asp Val Leu Ile Ile Thr Gly Glu Leu Asp Glu

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<210> 5984
<211> 273
<212> PRT
<213> Enterobacter cloacae
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```
<210> 5985
<211> 141
<212> PRT
<213> Enterobacter cloacae
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<400> 5985
Gly Ala Ser Leu Met Leu Gln Pro Lys Arg Thr Lys Phe Arg Lys Val
1 5 10 15
His Lys Gly Arg Asn Arg Gly Leu Ala Gln Gly Thr Asp Val Ser Phe
20 25 30

Gly Thr Phe Gly Leu Lys Ala Val Gly Arg Gly Arg Leu Thr Ala Arg
 35 40 45
 Gln Ile Glu Ala Ala Arg Arg Ala Met Thr Arg Ala Val Lys Arg Gln
 50 55 60
 Gly Lys Ile Trp Ile Arg Val Phe Pro Asp Lys Pro Ile Thr Glu Lys
 65 70 75 80
 Pro Leu Glu Val Arg Met Gly Lys Gly Lys Gly Asn Val Glu Tyr Trp
 85 90 95
 Val Ala Leu Ile Gln Pro Gly Lys Val Leu Tyr Glu Met Asp Gly Val
 100 105 110
 Pro Glu Glu Leu Ala Arg Glu Ala Phe Gly Leu Ala Ala Lys Leu
 115 120 125
 Pro Ile Lys Thr Thr Phe Val Thr Lys Thr Val Met
 130 135 140

<210> 5986

<211> 281

<212> PRT

<213> Enterobacter cloacae

<400> 5986

Val Ser Arg Arg Ser Asn Thr Met Ala Val Val Lys Cys Lys Pro Thr
 1 5 10 15
 Ser Pro Gly Arg Arg His Val Val Lys Val Val Asn Pro Glu Leu His
 20 25 30
 Lys Gly Lys Pro Phe Ala Pro Leu Leu Glu Lys Asn Ser Lys Ser Gly
 35 40 45
 Gly Arg Asn Asn Asn Gly Arg Ile Thr Thr Arg His Ile Gly Gly Gly
 50 55 60
 His Lys Gln Ala Tyr Arg Ile Val Asp Phe Lys Arg Asn Lys Asp Gly
 65 70 75 80
 Ile Pro Ala Val Val Glu Arg Leu Glu Tyr Asp Pro Asn Arg Ser Ala
 85 90 95
 Asn Ile Ala Leu Val Leu Tyr Lys Asp Gly Glu Arg Arg Tyr Ile Leu
 100 105 110
 Ala Pro Lys Gly Leu Lys Ala Gly Asp Gln Ile Gln Ser Gly Val Asp
 115 120 125
 Ala Ala Ile Lys Ala Gly Asn Thr Leu Pro Met Arg Asn Ile Pro Val
 130 135 140
 Gly Ser Thr Val His Asn Val Glu Met Lys Pro Gly Lys Gly Gly Gln
 145 150 155 160
 Leu Ala Arg Ser Ala Gly Thr Tyr Val Gln Ile Val Ala Arg Asp Gly
 165 170 175
 Ala Tyr Val Thr Leu Arg Leu Arg Ser Gly Glu Met Arg Lys Val Glu
 180 185 190
 Ala Asp Cys Arg Ala Thr Leu Gly Glu Val Gly Asn Ala Glu His Met
 195 200 205
 Leu Arg Val Leu Gly Lys Ala Gly Ala Ala Arg Trp Arg Gly Val Arg
 210 215 220
 Pro Thr Val Arg Gly Thr Ala Met Asn Pro Val Asp His Pro His Gly
 225 230 235 240
 Gly Gly Glu Gly Arg Asn Phe Gly Lys His Pro Val Thr Pro Trp Gly
 245 250 255
 Val Gln Thr Lys Gly Lys Lys Thr Arg Ser Asn Lys Arg Thr Asp Lys
 260 265 270
 Phe Ile Val Arg Arg Arg Ser Lys
 275 280

<210> 5987

<211> 114

<212> PRT

<213> Enterobacter cloacae

<400> 5987

Glu Glu Glu Met Glu Thr Leu Ala Gln His Arg His Ala Arg Ser Ser
 1 5 10 15
 Ala Gln Lys Val Arg Leu Val Ala Asp Leu Ile Arg Gly Lys Lys Val
 20 25 30
 Ser Gln Ala Leu Asp Ile Leu Thr Tyr Thr Asn Lys Lys Ala Ala Val
 35 40 45
 Leu Val Lys Lys Val Leu Glu Ser Ala Ile Ala Asn Ala Glu His Asn
 50 55 60
 Asp Gly Ala Asp Ile Asp Asp Leu Lys Val Ala Lys Ile Phe Val Asp
 65 70 75 80
 Glu Gly Pro Ser Met Lys Arg Ile Met Pro Arg Ala Lys Gly Arg Ala
 85 90 95
 Asp Arg Ile Leu Lys Arg Thr Ser His Ile Thr Val Val Val Ser Asp
 100 105 110
 Arg

<210> 5988

<211> 90

<212> PRT

<213> Enterobacter cloacae

<400> 5988

Asp Phe Thr Asp Ser Glu Gly Gly Cys Val Met Thr Asp Lys Ile Arg
 1 5 10 15
 Thr Leu Gln Gly Arg Val Val Ser Asp Lys Met Glu Lys Ser Ile Val
 20 25 30
 Val Ala Ile Glu Arg Phe Val Lys His Pro Ile Tyr Gly Lys Phe Ile
 35 40 45
 Lys Arg Thr Thr Lys Leu His Val His Asp Glu Asn Asn Glu Cys Gly
 50 55 60
 Ile Gly Asp Lys Val Glu Ile Arg Asp Ala Val Gln Val Asp Asp Tyr
 65 70 75 80
 Ser Trp Thr Leu Phe Ala Cys Lys Lys Lys
 85 90

<210> 5989

<211> 105

<212> PRT

<213> Enterobacter cloacae

<400> 5989

Gly Asp Ala Gly Met Ile Arg Glu Glu Arg Leu Leu Lys Val Leu Arg
 1 5 10 15
 Ala Pro His Val Ser Glu Lys Ala Ser Thr Ala Met Glu Lys Thr Asn
 20 25 30
 Thr Ile Val Leu Lys Val Ala Lys Asp Ala Thr Lys Ala Glu Ile Lys
 35 40 45
 Ala Ala Val Gln Lys Leu Phe Glu Val Glu Val Val Asn Thr
 50 55 60
 Leu Val Val Lys Gly Lys Val Lys Arg His Gly Gln Arg Ile Gly Arg
 65 70 75 80
 Arg Ser Asp Trp Lys Lys Ala Tyr Val Thr Leu Lys Glu Gly Gln Asn
 85 90 95
 Leu Asp Phe Val Gly Gly Ala Glu
 100 105

<210> 5990

<211> 94
 <212> PRT
 <213> Enterobacter cloacae

<400> 5990

Ala	Met	Pro	Arg	Ser	Leu	Lys	Lys	Gly	Pro	Phe	Ile	Asp	Leu	His	Leu
1				5					10					15	
Leu	Lys	Lys	Val	Glu	Lys	Ala	Val	Glu	Ser	Gly	Asp	Lys	Lys	Pro	Leu
			20					25					30		
Arg	Thr	Trp	Ser	Arg	Arg	Ser	Thr	Ile	Phe	Pro	Asn	Met	Ile	Gly	Leu
		35					40					45			
Thr	Ile	Ala	Val	His	Asn	Gly	Arg	Gln	His	Val	Pro	Val	Phe	Val	Thr
	50					55					60				
Asp	Glu	Met	Val	Gly	His	Lys	Leu	Gly	Glu	Phe	Ala	Pro	Thr	Arg	Thr
65					70					75					80
Tyr	Arg	Gly	His	Ala	Ala	Asp	Lys	Lys	Ala	Lys	Lys	Lys			
				85					90						

<210> 5991
 <211> 68
 <212> PRT
 <213> Enterobacter cloacae

<400> 5991

Asp	Gly	Asp	Val	Met	Lys	Ala	Lys	Glu	Leu	Arg	Glu	Lys	Ser	Val	Glu
1				5					10					15	
Glu	Leu	Asn	Ala	Glu	Leu	Leu	Asn	Leu	Leu	Arg	Glu	Gln	Phe	Asn	Leu
			20					25					30		
Arg	Met	Gln	Ala	Ala	Ser	Gly	Gln	Leu	Gln	Gln	Thr	His	Leu	Leu	Lys
		35					40					45			
Gln	Val	Arg	Arg	Asn	Val	Ala	Arg	Val	Lys	Thr	Leu	Leu	Thr	Gln	Lys
	50					55					60				
Ala	Gly	Ala													
65															

<210> 5992
 <211> 436
 <212> PRT
 <213> Enterobacter cloacae

<400> 5992

Thr	Leu	Leu	Leu	Pro	Thr	Arg	Arg	Leu	Lys	Leu	Tyr	Gly	Glu	Ser	Phe
1				5					10					15	
Ser	Asp	Ala	His	Leu	Asn	Val	Leu	Leu	Thr	Lys	Leu	Glu	Lys	Ala	Ala
			20						25				30		
Thr	Asn	Ile	Thr	Glu	Lys	Arg	Lys	Ser	Gly	Trp	Asp	Glu	Lys	Asp	Val
		35					40					45			
Val	Leu	Ile	Thr	Tyr	Ala	Asp	Gln	Phe	Ser	Thr	Lys	Gly	Glu	Gln	Ala
	50					55					60				
Leu	Pro	Val	Phe	Thr	Arg	Phe	Tyr	Asn	Glu	Trp	Leu	Ser	Arg	Thr	Phe
65					70					75					80
Ser	His	Val	His	Leu	Leu	Pro	Phe	Tyr	Pro	Trp	Ser	Ser	Asp	Asp	Gly
				85					90					95	
Phe	Ser	Val	Ile	Asp	Tyr	His	Glu	Val	Ala	Pro	Glu	Thr	Gly	Thr	Trp
			100					105					110		
Arg	Asp	Val	Ala	Glu	Leu	Lys	His	Ser	Ala	Ser	Leu	Met	Phe	Asp	Phe
		115					120					125			
Val	Cys	Asn	His	Met	Ser	Ala	Lys	Ser	Glu	Trp	Phe	Ala	Asn	Tyr	Leu
	130					135					140				
Ala	Gln	Lys	Pro	Gly	Tyr	Glu	Asp	Phe	Phe	Ile	Ser	Val	Asp	Pro	Glu
145					150					155					160

Thr Asp Leu Ser Ala Val Thr Arg Pro Arg Ala Leu Pro Leu Leu Thr
 165 170 175
 Pro Phe Thr Leu His Asp Gly Ser Val Arg His Leu Trp Thr Thr Phe
 180 185 190
 Ser Asp Asp Gln Ile Asp Leu Asn Phe Ala Ser Pro Gln Val Leu Ile
 195 200 205
 Ala Met Val Asp Val Leu Leu His Tyr Leu Met Glu Gly Ala Arg Tyr
 210 215 220
 Ile Arg Leu Asp Ala Val Gly Phe Met Trp Lys Ile Pro Gly Thr Thr
 225 230 235 240
 Cys Ile His Leu Glu Gln Thr His Cys Leu Ile Gln Leu Phe Arg Ala
 245 250 255
 Ile Thr Asp Ala Val Ala Pro Gly Thr Val Ile Ile Thr Glu Thr Asn
 260 265 270
 Val Pro His Lys Asp Asn Val Ser Tyr Phe Gly Asp Gly Glu Asn Glu
 275 280 285
 Ala His Met Val Tyr Gln Phe Ser Leu Pro Pro Leu Val Leu His Ala
 290 295 300
 Val His Arg Gln Asp Val Lys Thr Leu Cys Gln Trp Ala Gly Ser Leu
 305 310 315 320
 Ala Leu Pro Ser Thr His Thr Thr Trp Phe Asn Phe Leu Ala Ser His
 325 330 335
 Asp Gly Ile Gly Leu Asn Pro Leu Arg Gly Ile Leu Pro Glu Ser Glu
 340 345 350
 Ile Leu Ser Leu Val Glu Lys Leu Gln His Glu Cys Ala Leu Val Asn
 355 360 365
 Trp Lys Asn Asn Pro Asp Gly Thr Arg Ser Pro Tyr Glu Ile Asn Val
 370 375 380
 Thr Tyr Leu Asp Ala Leu Ser Leu Arg Asp Ser Ser Tyr Asp Glu Arg
 385 390 395 400
 Ile Ala Arg Phe Ile Leu Ser His Ala Val Leu Leu Ser Phe Pro Gly
 405 410 415
 Val Pro Ala Val Tyr Ile Gln Ser Ile Leu Gly Ser Arg Asn Asp Tyr
 420 425 430
 Glu Gly Val
 435

<210> 5993

<211> 125

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (32)

<400> 5993

Arg Leu Gly Tyr Asn Arg Ala Ile Asn Arg Lys Lys Tyr Thr Ala Arg
 1 5 10 15
 His Val Asp Leu Glu Leu Asn Asn Lys Lys Ser Ile Arg Tyr Gln Xaa
 20 25 30
 Tyr Ser Arg Leu Ser Glu Phe Ile Ala Ile Arg Arg Gly Glu Ser Ala
 35 40 45
 Phe His Pro Asp Ser Gln Ala Ile Phe Asp Ala Ile Gly Glu His Ile
 50 55 60
 Leu Lys Ile Val Arg Val Ala Glu Asn Gly Glu Arg Met Thr Ala Leu
 65 70 75 80
 Phe Asn Phe Ser Asn Lys Met Gln Thr Ile Tyr Gly Gln Thr Leu Phe
 85 90 95
 Gly Arg Glu Leu Leu Ser Gly His Asp Ile Ser Gly Thr Glu Leu Asn
 100 105 110

Leu Asn Pro Trp Gln Val Met Trp Ile Lys Glu Asn
 115 120 125

<210> 5994

<211> 442

<212> PRT

<213> Enterobacter cloacae

<400> 5994

Cys	Gly	Leu	Lys	Lys	Thr	Lys	Lys	Asp	Pro	Lys	Met	Lys	Met	Pro	Lys
1			5					10						15	
Ile	Val	Leu	Leu	Ser	Ala	Leu	Val	Ser	Cys	Ala	Leu	Leu	Ser	Gly	Cys
		20						25					30		
Lys	Asp	Asp	Lys	Ala	Ser	Gln	Val	Thr	Ile	Glu	Phe	Met	His	Ser	Ser
		35					40					45			
Val	Glu	Gln	Glu	Arg	Gln	Ala	Val	Ile	Thr	Lys	Leu	Ile	Glu	Lys	Phe
	50					55					60				
Glu	Lys	Glu	Asn	Pro	Thr	Ile	Thr	Val	Lys	Gln	Val	Pro	Val	Glu	Glu
65					70					75					80
Asp	Ala	Tyr	Asn	Thr	Lys	Val	Ile	Thr	Leu	Ala	Arg	Thr	Gly	Ala	Leu
			85						90					95	
Pro	Glu	Val	Ile	Glu	Val	Ser	His	Asp	Tyr	Ala	Lys	Val	Met	Asp	Lys
		100						105					110		
Glu	Gln	Leu	Leu	Asp	Arg	Asp	Ala	Ile	Gly	Asn	Ala	Ile	Lys	Ala	Val
		115					120					125			
Gly	Glu	Asp	Thr	Phe	Tyr	Asp	Gly	Ile	Leu	Arg	Val	Val	Arg	Thr	Glu
	130					135					140				
Asp	Gly	Lys	Ala	Trp	Thr	Gly	Val	Pro	Val	Ser	Ala	Trp	Leu	Ser	Gly
145					150					155					160
Val	Trp	Tyr	His	Lys	Asp	Ala	Leu	Ala	Ala	Gly	Ile	Glu	Glu	Pro	
				165					170					175	
His	Asn	Trp	Glu	Gln	Leu	Leu	Lys	Ala	Ser	Gln	Ala	Leu	Asn	Asp	Pro
		180						185					190		
Ala	Lys	Lys	His	Tyr	Gly	Ile	Ala	Leu	Pro	Thr	Ala	Glu	Ser	Val	Met
		195					200					205			
Thr	Glu	Gln	Ala	Phe	Ser	Gln	Phe	Ala	Leu	Ser	Gly	Gly	Ala	Asn	Val
	210					215					220				
Phe	Asp	Ala	Asn	Gly	Asn	Val	Lys	Ile	Asp	Thr	Pro	Glu	Met	Ser	Lys
225					230					235					240
Ala	Leu	Ala	Phe	Tyr	Arg	Ala	Leu	Ala	Ala	Asn	Thr	Met	Pro	Gly	Ser
			245						250					255	
Asn	Asp	Val	Met	Glu	Ile	Lys	Asp	Ala	Phe	Met	Asn	Gly	Cys	Ala	Pro
		260					265						270		
Met	Ala	Val	Tyr	Ser	Thr	Tyr	Ile	Leu	Pro	Ala	Val	Tyr	Lys	Asp	Gly
		275					280					285			
Asn	Pro	Ala	Asn	Leu	Gly	Phe	Val	Val	Pro	Thr	Glu	Lys	Ser	Ser	Ala
	290					295					300				
Val	Tyr	Gly	Met	Ile	Thr	Ser	Leu	Thr	Ile	Thr	Thr	Gly	Gln	Thr	Glu
305					310					315					320
Glu	Glu	Thr	Gln	Ala	Ala	Glu	Lys	Phe	Val	Thr	Trp	Met	Glu	Gln	Ala
			325						330					335	
Gln	Asn	Ala	Ser	Asp	Trp	Val	Met	Met	Ser	Pro	Gly	Ala	Ala	Leu	Pro
			340					345					350		
Leu	Asn	Lys	Leu	Val	Val	Gly	Thr	Glu	Ser	Trp	Lys	Asn	Asn	Asp	Val
		355					360					365			
Ile	Lys	Ala	Phe	Gly	Gln	Leu	Pro	Tyr	Glu	Leu	Ile	Ala	Gln	Phe	Pro
	370					375					380				
Asn	Val	Gln	Val	Phe	Gly	Ala	Val	Gly	Asp	Lys	Asn	Phe	Thr	Arg	Met
385					390					395					400
Gly	Asp	Val	Thr	Gly	Ser	Gly	Ile	Ile	Ser	Ser	Met	Val	His	Asn	Val
				405					410					415	

2300

Thr Val Gly Gln Lys Asp Leu Asn Ala Thr Leu Ser Asn Ser Gln Lys
 420 425 430
 Lys Leu Thr Asp Leu Ile Ser Gln Arg
 435 440

<210> 5995
 <211> 301
 <212> PRT
 <213> Enterobacter cloacae

<400> 5995
 Glu Arg Phe Ala Lys Gly Ile Met Lys Thr Leu Phe Ser Gly Arg Ser
 1 5 10 15
 Asp Met Pro Phe Ala Met Leu Leu Leu Ala Pro Ser Leu Ile Leu Leu
 20 25 30
 Gly Gly Leu Val Ala Trp Pro Met Ile Ser Asn Ile Glu Ile Ser Phe
 35 40 45
 Leu Arg Leu Pro Leu Asn Pro Arg Ile Asp Ala Val Phe Val Gly Leu
 50 55 60
 Asp Asn Tyr Ile Arg Ile Leu Gly Asp Ala Ala Phe Trp His Ser Leu
 65 70 75 80
 Trp Met Thr Phe Trp Tyr Thr Ala Leu Val Val Leu Gly Ser Thr Gly
 85 90 95
 Leu Gly Leu Ala Val Ala Ile Phe Phe Asn Arg Glu Phe Arg Met Arg
 100 105 110
 Lys Thr Ala Arg Ser Leu Val Ile Leu Ser Tyr Val Thr Pro Ser Ile
 115 120 125
 Ser Leu Val Phe Ala Trp Lys Tyr Met Phe Asn Asn Gly Tyr Gly Ile
 130 135 140
 Val Asn Tyr Leu Gly Val Asp Leu Leu His Leu Tyr Asp Gln Ala Pro
 145 150 155 160
 Leu Trp Phe Asp Asn Pro Gly Ser Ser Phe Val Leu Val Val Leu Phe
 165 170 175
 Ala Ile Trp Arg Tyr Phe Pro Tyr Ala Phe Ile Ser Phe Leu Ala Ile
 180 185 190
 Leu Gln Thr Ile Asp Lys Ser Leu Tyr Glu Ala Ala Glu Met Asp Gly
 195 200 205
 Ala Asn Ala Trp Gln Arg Phe Arg Ile Val Thr Leu Pro Ala Ile Met
 210 215 220
 Pro Val Leu Ala Thr Val Val Thr Leu Arg Thr Ile Trp Met Phe Tyr
 225 230 235 240
 Met Phe Ala Asp Val Tyr Leu Leu Thr Thr Lys Val Asp Ile Leu Gly
 245 250 255
 Val Tyr Leu Tyr Lys Thr Ala Phe Ala Phe Asn Asp Leu Gly Lys Ala
 260 265 270
 Ala Ala Ile Ser Val Val Leu Phe Val Ile Ile Phe Ala Val Ile Leu
 275 280 285
 Leu Thr Arg Lys Arg Val Asn Leu Asn Gly Asn Lys
 290 295 300

<210> 5996
 <211> 215
 <212> PRT
 <213> Enterobacter cloacae

<220>
 <221> UNSURE
 <222> (175)

<220>
 <221> UNSURE

<222> (176)

<220>

<221> UNSURE

<222> (182)

<220>

<221> UNSURE

<222> (203)

<400> 5996

Thr	Ser	Met	Ala	Thr	Asn	Lys	Arg	Val	Leu	Gly	Arg	Ile	Gly	Phe	Tyr
1				5					10					15	
Leu	Gly	Leu	Ala	Val	Phe	Leu	Ile	Ile	Thr	Leu	Phe	Pro	Phe	Phe	Val
			20					25					30		
Met	Leu	Met	Thr	Ser	Phe	Lys	Ser	Ala	Lys	Glu	Ala	Ile	Ser	Leu	His
		35					40					45			
Pro	Thr	Ile	Leu	Pro	Gln	Glu	Trp	Thr	Leu	Gln	His	Tyr	Ile	Asp	Ile
		50				55					60				
Phe	Asn	Pro	Leu	Ile	Phe	Pro	Phe	Val	Asp	Tyr	Phe	Arg	Asn	Ser	Met
65					70				75						80
Val	Val	Ser	Leu	Thr	Ser	Ser	Val	Ile	Ala	Val	Phe	Leu	Gly	Thr	Leu
				85					90					95	
Gly	Ala	Tyr	Ala	Leu	Ser	Lys	Leu	Arg	Phe	Lys	Gly	Arg	Thr	Thr	Ile
			100					105					110		
Asn	Ala	Ser	Phe	Tyr	Thr	Val	Tyr	Met	Phe	Ser	Gly	Ile	Leu	Leu	Val
		115					120					125			
Val	Pro	Leu	Phe	Lys	Ile	Ile	Thr	Ala	Leu	Gly	Ile	Tyr	Asp	Thr	Glu
		130				135						140			
Leu	Ala	Leu	Ile	Ile	Thr	Met	Val	Thr	Gln	Thr	Leu	Pro	Thr	Ala	Val
145					150					155					160
Phe	Met	Leu	Arg	Asn	Tyr	Phe	Asp	Thr	Ile	Pro	Asp	Glu	Ile	Xaa	Xaa
				165					170					175	
Ala	Pro	Met	Lys	Asp	Xaa	Leu	Lys	Arg	Leu	Gln	Ile	Ile	Phe	Arg	Ile
			180					185					190		
Thr	Leu	Pro	Leu	Gly	Asn	Ser	Gly	Leu	Val	Xaa	Val	Phe	Val	His	Cys
		195					200					205			
Phe	Met	Val	Gly	Val	Glu										
		210					215								

<210> 5997

<211> 153

<212> PRT

<213> Enterobacter cloacae

<400> 5997

Ser	Phe	Glu	Ala	Leu	Lys	Glu	Tyr	Tyr	Pro	Gln	Ala	Lys	Lys	Glu	Asp
1				5					10					15	
Trp	Arg	Leu	Trp	Gln	Ala	Gly	Gln	Arg	Val	Gln	Ile	Ile	Lys	Arg	Asp
			20					25					30		
Pro	Lys	Glu	Gly	Gly	Val	Leu	Arg	Met	Ser	Thr	Glu	Val	Val	Ser	Asp
		35					40					45			
Lys	Asp	Gly	Thr	Ile	Ala	Val	Leu	Leu	Gly	Ala	Ser	Pro	Gly	Ala	Ser
		50				55				60					
Thr	Ala	Ala	Pro	Ile	Met	Leu	His	Leu	Met	Glu	Lys	Val	Phe	Lys	Asp
65					70					75					80
Lys	Val	Ser	Ser	Pro	Glu	Trp	Gln	Ala	Lys	Leu	Lys	Thr	Ile	Ile	Pro
				85					90					95	
Ser	Tyr	Gly	Thr	Lys	Leu	Asn	Gly	Asn	Val	Glu	Ala	Thr	Glu	Gln	Glu
			100					105					110		
Leu	Glu	Tyr	Thr	Ser	Arg	Val	Leu	Gln	Leu	Gln	Tyr	Val	Lys	Pro	Gln

115 120 125
 Ala Ala Asp Ala Ala Pro Lys Ala Glu Leu Lys Pro Gln Ala Glu Ser
 130 135 140
 Lys Pro Val Ala Asp Ile Ala Leu
 145 150

<210> 5998
 <211> 124
 <212> PRT
 <213> Enterobacter cloacae

<400> 5998
 Cys Thr Ala Phe Val Phe Phe Tyr Trp Cys Leu Met Leu Trp Trp Ser
 1 5 10 15
 Arg Cys Gly Asp Arg Val Ile Leu Arg Val Asn Tyr Cys Tyr Leu Ser
 20 25 30
 Val Lys Gly Gly Asp Met Val Arg Glu Lys Leu Lys Thr Pro Glu Gly
 35 40 45
 Arg Lys Phe Leu Leu Ala Leu Leu Val Val Phe Met Ile Ala Ala Ala
 50 55 60
 Cys Val Gly Arg Ala Thr Ile Val Gly Val Ile Glu Gln Tyr Asn Ile
 65 70 75 80
 Pro Leu Ser Ala Trp Thr Thr Ser Met Phe Val Leu Gln Ser Ala Met
 85 90 95
 Ile Phe Val Tyr Ser Leu Val Phe Thr Val Leu Leu Ala Ile Pro Leu
 100 105 110
 Gly Ile Phe Phe Leu Gly Gly Arg Glu Lys His
 115 120

<210> 5999
 <211> 137
 <212> PRT
 <213> Enterobacter cloacae

<220>
 <221> UNSURE
 <222> (137)

<400> 5999
 Ile Pro Pro Gly Leu Lys Gly Glu Phe Ile Met Ser Leu Glu Ile Asn
 1 5 10 15
 Gln Ile Ala Leu His Gln Leu Ile Lys Arg Asp Glu Gln Thr Leu Glu
 20 25 30
 Val Val Leu Arg Asp Ser Leu Leu Glu Pro Thr Pro Thr Val Val Glu
 35 40 45
 Met Met Ala Glu Leu His Arg Val Tyr Ser Ala Lys Asn Lys Ala Tyr
 50 55 60
 Gly Leu Phe Ser Glu Glu Ser Glu Leu Ala Asp Ser Leu Arg Leu Gln
 65 70 75 80
 Arg Gln Gly Glu Glu Asp Phe Leu Ala Phe Ser Arg Ala Ala Thr Gly
 85 90 95
 Arg Leu Arg Asp Glu Leu Ala Lys Tyr Pro Phe Ala Asp Gly Gly Ile
 100 105 110
 Val Leu Phe Cys His Tyr Arg Cys Pro Ala Val Val Phe Pro Gln Glu
 115 120 125
 Leu Ala Ile Arg Glu Val Asn Arg Xaa
 130 135

<210> 6000
 <211> 625
 <212> PRT

<213> Enterobacter cloacae

<400> 6000

```

Ser Ile Pro Ala Leu Leu Arg Leu Ser Val Arg Arg Ser Pro Asn Leu
1      5      10      15
Ser Pro Arg Leu Cys Ser Pro Pro Leu Ala Thr Thr Arg His Thr Lys
20      25      30
Gly Asn Glu Gln Gln Phe Met Val Thr Asn Arg Gln Arg Tyr Arg Glu
35      40      45
Lys Val Ser Gln Met Val Ser Trp Gly His Trp Phe Ala Leu Phe Asn
50      55      60
Ile Leu Leu Ala Met Val Leu Gly Cys Arg Tyr Leu Phe Val Ala Asp
65      70      75      80
Trp Pro Thr Thr Leu Thr Gly Arg Val Tyr Ser Trp Met Ser Leu Val
85      90      95
Gly His Phe Ser Phe Leu Val Phe Ala Thr Tyr Leu Leu Ile Leu Phe
100     105     110
Pro Leu Thr Phe Ile Val Met Ser Gln Arg Leu Met Arg Phe Leu Ser
115     120     125
Ala Ile Leu Ala Thr Ala Gly Met Thr Leu Leu Leu Ile Asp Ser Glu
130     135     140
Val Phe Thr Arg Phe His Leu His Leu Asn Pro Val Val Trp Glu Leu
145     150     155     160
Val Ile Asn Pro Asp Gln Asn Glu Thr Ala Arg Asp Trp Gln Leu Met
165     170     175
Phe Ile Ser Val Pro Ile Ile Leu Leu Ile Glu Met Leu Phe Ala Thr
180     185     190
Trp Ser Trp Gln Lys Leu Arg Ser Leu Thr Arg Arg Arg His Tyr Ala
195     200     205
Lys Pro Val Ala Ala Leu Phe Phe Ala Ser Phe Ile Gly Ser His Leu
210     215     220
Met Tyr Ile Trp Ala Asp Ala Asn Phe Tyr Arg Pro Ile Thr Met Gln
225     230     235     240
Arg Ala Asn Leu Pro Leu Ser Tyr Pro Met Thr Ala Arg Arg Phe Leu
245     250     255
Glu Lys His Gly Leu Leu Asp Ala Gln Glu Tyr Gln Arg Arg Leu Val
260     265     270
Glu Gln Gly Asn Pro Glu Ala Val Ser Val Gln Tyr Pro Leu Ser Asp
275     280     285
Leu Lys Tyr Arg Asp Met Gly Arg Gly Gln Asn Val Leu Leu Ile Thr
290     295     300
Val Asp Gly Leu Asn Tyr Ser Arg Tyr Glu Lys Gln Met Pro Ala Leu
305     310     315     320
Ala Glu Phe Ala Glu Asn Asn Ile Val Phe Thr Gln His Met Ser Ser
325     330     335
Gly Asn Ser Thr Asp Ala Gly Ile Phe Gly Leu Phe Tyr Gly Ile Ser
340     345     350
Pro Ser Tyr Met Asp Gly Val Leu Ser Ala Arg Ile Pro Ala Ala Leu
355     360     365
Ile Thr Gly Leu Asn Gln Gln Gly Tyr Gln Leu Gly Leu Phe Ala Ser
370     375     380
Asp Gly Phe Asn Ser Ser Leu Tyr Arg Gln Ala Leu Leu Ser Asp Phe
385     390     395     400
Ser Leu Pro Ala Ala Gln Ser Gln Ser Asp Asp Arg Thr Ala Asp Gln
405     410     415
Trp Ile Asp Trp Leu Lys Arg Tyr Ala Gln Glu Asp Asn Arg Trp Phe
420     425     430
Ser Trp Val Ala Phe Asn Gly Thr Thr Leu Asp Asp Ser Asn Gln Lys
435     440     445
Gly Phe Ala Arg Arg Tyr Ser Arg Ala Ala Gly Asp Val Asp Ala Gln
450     455     460

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Ile Gly Arg Val Leu Thr Ala Leu Arg Asp Ala Gly Lys Leu Asp Asn
465          470          475          480
Thr Val Val Ile Ile Thr Ala Gly His Gly Val Pro Leu Gly Asp Glu
          485          490          495
Ala Lys Gly Met Glu Trp Ser Arg Pro Asn Leu His Val Pro Leu Val
          500          505          510
Ile His Trp Pro Gly Thr Pro Ala Gln Arg Ile Asn Met Leu Thr Asp
          515          520          525
His Lys Asp Val Met Thr Thr Leu Met Gln Arg Leu Leu His Val Ser
          530          535          540
Thr Pro Ala Ile Glu Tyr Ser Gln Gly Gln Asp Leu Phe Ser Ala Thr
545          550          555          560
Arg Arg His Asn Trp Val Thr Ala Ala Gly Gly Asn Thr Leu Val Val
          565          570          575
Thr Thr Pro Thr Leu Ser Leu Val Leu Asn Ser Asn Gly Asn Tyr Gln
          580          585          590
Thr Tyr Ser Leu Glu Gly Glu Lys Leu Lys Asp Gln Lys Pro Gln Leu
          595          600          605
Ser Leu Leu Leu Gln Val Leu Thr Asp Glu Lys Arg Phe Ile Ala Asn
        610          615          620

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625

<210> 6001

<211> 173

<212> PRT

<213> Enterobacter cloacae

<400> 6001

```

Gln Lys Gly Met Thr Val Lys Asn Ala Pro Lys Phe Ala Ile Ala Leu
1          5          10          15
Ile Ala Ala Ala Cys Ala Ser Ser Ser Ala Phe Ala Ser Glu Thr Gln
          20          25          30
Lys Glu Gln Pro Leu Glu Lys Val Ala Pro Tyr Pro Gln Ala Asp Lys
          35          40          45
Gly Met Lys Arg Gln Val Ile Gln Leu Pro Ala Gln Gln Asp Glu Ala
          50          55          60
Asn Phe Lys Val Glu Leu Ile Gly Gln Thr Leu Glu Val Asp Cys
65          70          75          80
Asn Gln His Arg Leu Gly Gly Gln Leu Glu Ser Lys Thr Leu Glu Gly
          85          90          95
Trp Gly Tyr Asp Tyr Tyr Val Phe Asp Lys Val Thr Ser Pro Val Ser
          100          105          110
Thr Met Met Ala Cys Pro Asp Gly Lys Lys Glu Lys Lys Phe Ile Thr
          115          120          125
Ala Tyr Leu Gly Asp Asn Ser Leu Leu Arg Tyr Asn Ser Lys Leu Pro
          130          135          140
Ile Val Val Tyr Thr Pro Glu Asn Val Asp Val Lys Tyr Arg Val Trp
145          150          155          160
Lys Ala Asp Glu Thr Val Gly Gln Ala Val Val Arg
          165          170

```

<210> 6002

<211> 77

<212> PRT

<213> Enterobacter cloacae

<400> 6002

```

Phe Met Pro Gln His Ser Arg Tyr Ser Asp Glu His Val Glu Gln Leu
1          5          10          15
Leu Ser Glu Leu Val Asn Val Leu Glu Lys His Lys Thr Pro Thr Asp

```


370		375		380
Ser Asn Leu Leu Ser	Asn Ala Ile Lys Tyr	Ser Pro Asp Asn Thr Cys		
385	390	395		400
Thr Ala Ile His	Leu Glu Arg Asp Arg	Asp Cys Val Asn Val Met Ile		
	405	410		415
Thr Asn Thr Met	Ser Gly Gln Val Pro	Ala Asn Leu Glu Arg Leu Phe		
	420	425		430
Asp Arg Phe Tyr	Arg Ala Asp Ser Ser Arg	Phe Tyr Asn Thr Glu Gly		
	435	440		445
Ala Gly Leu Gly Leu	Ser Ile Thr Arg Ser Ile	Ile His Ala His Gly		
	450	455		460
Gly Glu Leu Ser Ala	Glu Gln Gln Gly Arg	Glu Ile Val Phe Lys Val		
465	470	475		480
Arg Leu Leu Met Asp				
	485			

<210> 6004

<211> 244

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (99)

<400> 6004

Arg Lys Arg Gly	Ser Gly Thr Pro	Glu Val Lys Thr	Ile His Val Ile
1	5	10	15
Glu Met Val Ile	Glu Glu Thr Asp	Val Gly Ile Ser	Trp Ile Val Arg
	20	25	30
Leu Cys Ala Leu	Phe Thr Thr Leu	Gly Ala Leu Phe	Leu Tyr Thr Asn
	35	40	45
Lys Arg Val Leu	Ser Cys Leu Leu	Met Thr Met Ser	Gly Gly Val Ala
	50	55	60
Leu Ala Thr Leu	Ala Trp Gly Gly	His Ala Val Met	His Asp Gly Leu
65	70	75	80
His Tyr Tyr Leu	His Leu Leu Ser	Asp Leu Thr His	Leu Gly Ala Ala
	85	90	95
Gly Ala Xaa Asp	Arg Gly Phe Ala	Leu Val Ala Phe	Ala Ile Leu Leu
	100	105	110
Met Arg Arg Asn	Glu His Asn Ala	Gln Ser Val Ile	Val Ile Ser Asp
	115	120	125
Ser Leu Ala Lys	Phe Ala Thr Ala	Gly Thr Val Ile	Val Val Ala Leu
	130	135	140
Ile Leu Thr Ala	Leu Val Asn Tyr	Leu Tyr Ile Ala	Glu Gly Asn Leu
145	150	155	160
Thr Pro Leu Phe	Asn Ser Ser Trp	Gly Arg Ile Leu	Leu Ala Lys Thr
	165	170	175
Ala Leu Phe Val	Leu Met Leu Leu	Leu Ala Ala Ala	Asn Arg Phe His
	180	185	190
Leu Gly Pro Arg	Leu Glu Val Met	Val Arg Glu Gly	Asn Tyr Asp Arg
	195	200	205
Ser Val Ala Leu	Met Arg Asn Ser	Ile Leu Thr Glu	Phe Val Val Ala
	210	215	220
Ile Ile Ile Leu	Gly Ala Val Ala	Trp Leu Gly Met	Leu Ala Pro Ser
225	230	235	240
Gln Val Ser			

<210> 6005

<211> 237

<212> PRT

<213> Enterobacter cloacae

<400> 6005

```

Asp Phe Tyr Phe His Ile Ser Glu Leu Thr Met Gln Arg Ile Leu Ile
1      5      10      15
Val Glu Asp Glu Gln Lys Thr Gly Arg Tyr Leu Gln Gln Gly Leu Val
      20      25      30
Glu Glu Gly Tyr Gln Ala Asp Leu Phe Asn Asn Gly Arg Asp Gly Leu
      35      40      45
Gly Ala Ala Ser Lys Gly Gln Tyr Asp Leu Ile Ile Leu Asp Val Met
      50      55      60
Leu Pro Phe Leu Asp Gly Trp Gln Ile Ile Ser Ala Leu Arg Glu Ser
65      70      75      80
Gly His Glu Glu Pro Val Leu Phe Leu Thr Ala Lys Asp Asn Val Arg
      85      90      95
Asp Lys Val Lys Gly Leu Glu Leu Gly Ala Asp Asp Tyr Leu Ile Lys
      100     105     110
Pro Phe Asp Phe Thr Glu Leu Val Ala Arg Val Arg Thr Leu Leu Arg
      115     120     125
Arg Ala Arg Ser Gln Ala Ala Thr Val Cys Thr Ile Ala Asp Met Thr
130     135     140
Val Asp Met Val Arg Arg Thr Val Ile Arg Ser Gly Lys Lys Ile His
145     150     155     160
Leu Thr Gly Lys Glu Tyr Val Leu Leu Glu Leu Leu Leu Gln Arg Thr
      165     170     175
Gly Glu Val Leu Pro Arg Ser Leu Ile Ser Ser Leu Val Trp Asn Met
      180     185     190
Asn Phe Asp Ser Asp Thr Asn Val Ile Asp Val Ala Val Arg Arg Leu
      195     200     205
Arg Ser Lys Ile Asp Asp Asp Phe Glu Pro Lys Leu Ile His Thr Val
210     215     220
Arg Gly Ala Gly Tyr Val Leu Glu Ile Arg Glu Glu
225     230     235

```

<210> 6006

<211> 138

<212> PRT

<213> Enterobacter cloacae

<400> 6006

```

Trp Thr Leu Ser Met Ser Asn Thr Leu Gln Pro Arg Arg Ala Arg Ala
1      5      10      15
Ser Tyr Ser Met Asp Phe Lys Leu Ala Leu Val Glu Lys Ser Tyr Gln
      20      25      30
Pro Gly Ala Cys Val Ala Arg Leu Ala Arg Asp Asn Gly Ile Asn Asp
      35      40      45
Asn Leu Leu Phe Thr Trp Arg Gln Arg Tyr Arg His Leu Leu Pro Asp
      50      55      60
Glu Ile Gln Arg Ser Ile Arg Glu Gln Asp Ser Val Ile Pro Val Val
65      70      75      80
Leu Pro Asp Met Ala Leu Ser His His Ala Glu Pro His Tyr Glu Pro
      85      90      95
Ala Ala Pro Ala Cys Arg Glu Ala Met Thr Cys Glu Val Thr Val Gly
      100     105     110
Gly Ala Ser Leu Arg Leu Ser Gly Asp Leu Ser Pro Ala Leu Leu Lys
      115     120     125
Thr Leu Ile Arg Glu Thr Leu Glu Lys Pro
130     135

```

<210> 6007

<211> 410

<212> PRT

<213> *Enterobacter cloacae*

<400> 6007

Arg	Arg	Tyr	Pro	Gln	Val	Lys	Leu	Asn	Ala	Arg	Gln	Val	Asp	Ala	Ala	1	5	10	15
Lys	Pro	Lys	Asp	Lys	Pro	Tyr	Lys	Leu	Ala	Asp	Gly	Gly	Gly	Leu	Tyr	20	25	30	
Leu	Leu	Ile	Lys	Pro	Asn	Gly	Gly	Lys	Tyr	Trp	Arg	Leu	Lys	Tyr	Arg	35	40	45	
Val	Ala	Gly	Lys	Glu	Lys	Leu	Leu	Ala	Leu	Gly	Val	Tyr	Pro	Glu	Val	50	55	60	
Thr	Leu	Ala	Asp	Ala	Arg	Ala	Lys	Arg	Glu	Glu	Ala	Lys	Arg	Gly	Ile	65	70	75	80
Ala	Gly	Gly	Ile	Asp	Pro	Met	Glu	Ala	Lys	Arg	Glu	Glu	Lys	Ile	Ala	85	90	95	
Arg	Glu	Ile	Gln	Leu	Asn	Asn	Thr	Phe	Lys	Asp	Ile	Ala	Leu	Glu	Trp	100	105	110	
His	Ser	Ser	Lys	Leu	Lys	Lys	Trp	Ser	Ala	Gly	Tyr	Ala	Ser	Asp	Ile	115	120	125	
Leu	Glu	Ala	Phe	Asn	Lys	Asp	Val	Phe	Pro	Tyr	Ile	Gly	Lys	Lys	Pro	130	135	140	
Ile	Ala	Glu	Ile	Lys	Pro	Leu	Glu	Leu	Leu	Asn	Val	Leu	Arg	Arg	Ile	145	150	155	160
Glu	Gly	Arg	Gly	Ala	Thr	Glu	Lys	Ala	Arg	Lys	Val	Arg	Gln	Arg	Cys	165	170	175	
Gly	Glu	Val	Phe	Arg	Tyr	Ala	Ile	Val	Thr	Gly	Arg	Ala	Glu	Tyr	Asn	180	185	190	
Pro	Ala	Pro	Asp	Leu	Thr	Ser	Ala	Met	Gln	Gly	His	Glu	Ser	Asn	His	195	200	205	
Phe	Pro	Phe	Leu	Thr	Pro	Lys	Gln	Leu	Pro	Asp	Phe	Phe	Asn	Ala	Leu	210	215	220	
Ser	Gly	Tyr	Ser	Gly	Ser	Glu	Leu	Val	Val	Leu	Ala	Ala	Arg	Leu	Leu	225	230	235	240
Ile	Ile	Thr	Gly	Leu	Arg	Pro	Gly	Glu	Leu	Arg	Gly	Ala	Phe	Trp	Asp	245	250	255	
Glu	Ile	Asn	Ile	Ser	Lys	Ala	Val	Trp	Glu	Ile	Pro	Ala	Ser	Arg	Met	260	265	270	
Lys	Met	Arg	Arg	Pro	His	Val	Val	Pro	Leu	Ser	Arg	Gln	Ala	Leu	Thr	275	280	285	
Leu	Ile	Gly	Gln	Ile	Gln	Glu	Leu	Thr	Gly	Asn	Tyr	Pro	Leu	Val	Phe	290	295	300	
Pro	Gly	Arg	Asn	Asp	Pro	Arg	Lys	Thr	Met	Ser	Glu	Ala	Ser	Ile	Asn	305	310	315	320
Gln	Val	Phe	Lys	Arg	Ile	Gly	Tyr	Asn	Gly	Lys	Val	Thr	Gly	His	Gly	325	330	335	
Phe	Arg	His	Thr	Met	Ser	Thr	Ile	Leu	His	Glu	Gln	Gly	Tyr	Asn	Thr	340	345	350	
Ala	Trp	Ile	Glu	Thr	Gln	Leu	Ala	His	Val	Asp	Lys	Asn	Ser	Ile	Arg	355	360	365	
Gly	Thr	Tyr	Asn	His	Ala	Gln	Tyr	Leu	Asp	Gly	Arg	Arg	Glu	Met	Leu	370	375	380	
Gln	Trp	Tyr	Ala	Asp	Tyr	Met	Glu	Ala	Leu	Glu	Asn	Gly	Glu	Asn	Val	385	390	395	400
Val	His	Gly	Thr	Phe	Gly	Lys	Ser	Ala								405		410	

<210> 6008

<211> 409

<212> PRT

<213> Enterobacter cloacae

<400> 6008

```

Thr Arg Phe Gly Leu Lys Trp Arg Ser Phe Pro Cys Gly Glu Lys Asn
1      5      10      15
Gly Leu Met Lys Lys Leu Gly Asp Tyr Val Glu Tyr His Ser Gln Glu
20      25      30
Ile Leu Leu Ala Asn Glu Gln Asp Leu Leu Glu Ala Arg Arg Asn Gly
35      40      45
Leu Ser Glu Ala Met Leu Asp Arg Leu Ala Leu Thr Pro Ala Arg Leu
50      55      60
Lys Gly Ile Ala Asp Asp Val Arg Gln Val Cys Asn Leu Ala Asp Pro
65      70      75      80
Val Gly Gln Val Ile Asp Gly Gly Val Leu Asp Ser Gly Leu Arg Leu
85      90      95
Glu Arg Arg Arg Val Pro Leu Gly Val Ile Gly Val Ile Tyr Glu Ala
100     105     110
Arg Pro Asn Val Thr Val Asp Val Ala Ser Leu Cys Leu Lys Thr Gly
115     120     125
Asn Ala Ala Ile Leu Arg Gly Gly Lys Glu Thr Trp Arg Thr Asn Ala
130     135     140
Ala Thr Val Asn Val Ile Gln Gln Ala Leu Glu Glu Cys Gly Leu Pro
145     150     155     160
Ala Gly Ala Val Gln Ala Ile Glu Ser Pro Asp Arg Ala Leu Val Asn
165     170     175
Glu Met Leu Arg Met Asp Lys Tyr Ile Asp Met Leu Ile Pro Arg Gly
180     185     190
Gly Ala Gly Leu His Lys Leu Cys Arg Glu Gln Ser Thr Ile Pro Val
195     200     205
Ile Thr Gly Gly Ile Gly Val Cys His Ile Val Val Asp Asp Thr Ala
210     215     220
Glu Val Glu Pro Ala Leu Lys Ile Ile Val Asn Ala Lys Thr Gln Arg
225     230     235     240
Pro Ser Thr Cys Asn Thr Val Glu Thr Leu Leu Val His Gln Gly Ile
245     250     255
Ala Ser Thr Phe Leu Pro Ala Leu Ser Lys Gln Met Ala Glu Ser Gly
260     265     270
Val Thr Leu His Ala Asp Glu Lys Ala Phe Ala Leu Leu Lys Asp Gly
275     280     285
Pro Ala Lys Val Val Pro Val Asn Ala Glu Gln Tyr Asp Asp Glu Tyr
290     295     300
Leu Ser Leu Asp Leu Asn Val Lys Val Val Ala Asp Leu Asp Asp Ala
305     310     315     320
Ile Ala His Ile Arg Glu His Gly Thr Gln His Ser Asp Ala Ile Leu
325     330     335
Thr Arg Thr Leu Arg Asn Ala Asp Arg Phe Val Asn Glu Val Asp Ser
340     345     350
Ser Ala Val Tyr Val Asn Ala Ser Thr Arg Phe Thr Asp Gly Gly Gln
355     360     365
Phe Gly Leu Gly Ala Glu Val Ala Val Ser Thr Gln Lys Leu His Ala
370     375     380
Arg Gly Pro Met Gly Leu Glu Ala Leu Thr Thr Tyr Lys Trp Ile Gly
385     390     395     400
Phe Gly Asp Asp Thr Ile Arg Ala
405

```

<210> 6009

<211> 133

<212> PRT

<213> Enterobacter cloacae

<400> 6009

```

Arg Gln Met Ser Met Gln Asp Pro Ile Ala Asp Met Leu Thr Arg Ile
1      5      10      15
Arg Asn Gly Gln Ala Ala Asn Lys Val Ala Val Thr Met Pro Ser Ala
20     25     30
Lys Leu Lys Val Ala Ile Ala Asn Val Leu Lys Glu Glu Gly Phe Ile
35     40     45
Glu Asp Phe Lys Val Glu Gly Asp Thr Lys Pro Glu Leu Glu Leu Thr
50     55     60
Leu Lys Tyr Phe Gln Gly Lys Ala Val Val Glu Ser Ile Gln Arg Val
65     70     75     80
Ser Arg Pro Gly Leu Arg Ile Tyr Lys Lys Lys Asp Glu Leu Pro Lys
85     90     95
Val Met Ala Gly Leu Gly Ile Ala Val Val Ser Thr Ser Lys Gly Val
100    105    110
Met Thr Asp Arg Ala Ala Arg Gln Ala Gly Leu Gly Gly Glu Ile Ile
115    120    125
Cys Tyr Val Ala
130

```

<210> 6010

<211> 182

<212> PRT

<213> Enterobacter cloacae

<400> 6010

```

Ser Glu Glu Arg Met Ser Arg Val Ala Lys Ala Pro Val Val Ile Pro
1      5      10      15
Ala Gly Val Asp Val Lys Ile Asp Gly Gln Val Ile Thr Ile Lys Gly
20     25     30
Lys Asn Gly Glu Leu Thr Arg Thr Leu Asn Lys Ala Val Glu Val Lys
35     40     45
His Ala Asp Asn Ala Leu Thr Phe Gly Pro Arg Asp Gly Phe Val Asp
50     55     60
Gly Trp Ala Gln Ala Gly Thr Ala Arg Ala Leu Leu Asn Ser Met Val
65     70     75     80
Val Gly Val Thr Glu Gly Phe Thr Lys Lys Leu Gln Leu Val Gly Val
85     90     95
Gly Tyr Arg Ala Ala Ile Lys Gly Asn Ala Val Gly Leu Ser Leu Gly
100    105    110
Phe Ser His Pro Val Glu His Pro Leu Pro Ala Gly Ile Thr Ala Glu
115    120    125
Cys Pro Thr Gln Thr Glu Ile Val Leu Lys Gly Ala Asp Lys Gln Leu
130    135    140
Ile Gly Gln Val Ala Ala Asp Leu Arg Ala Tyr Arg Arg Pro Glu Pro
145    150    155    160
Tyr Lys Gly Lys Gly Val Arg Tyr Ala Asp Glu Val Val Arg Thr Lys
165    170    175
Glu Ala Lys Lys Lys
180

```

<210> 6011

<211> 121

<212> PRT

<213> Enterobacter cloacae

<400> 6011

```

Gly Asn Thr Met Asp Lys Lys Ser Ala Arg Ile Arg Arg Ala Thr Arg
1      5      10      15
Ala Arg Arg Lys Leu Lys Glu Leu Gly Ala Thr Arg Leu Val Val His
20     25     30

```

Arg Thr Pro Arg His Ile Tyr Ala Gln Val Ile Ala Pro Asn Gly Ser
 35 40 45
 Glu Val Leu Val Ala Ala Ser Thr Val Glu Lys Ala Ile Ser Glu Gln
 50 55 60
 Leu Lys Tyr Thr Gly Asn Lys Asp Ala Ala Ala Val Gly Lys Ala
 65 70 75 80
 Val Ala Glu Arg Ala Leu Glu Lys Gly Ile Ser Asn Val Ser Phe Asp
 85 90 95
 Arg Ser Gly Phe Gln Tyr His Gly Arg Val Gln Ala Leu Ala Asp Ala
 100 105 110
 Ala Arg Glu Ala Gly Leu Gln Phe
 115 120

<210> 6012

<211> 309

<212> PRT

<213> Enterobacter cloacae

<400> 6012

Gln Met Ala Lys Gln Pro Gly Leu Asp Phe Gln Ser Ala Lys Gly Gly
 1 5 10 15
 Phe Gly Glu Leu Lys Arg Arg Leu Leu Phe Val Ile Gly Ala Leu Ile
 20 25 30
 Val Phe Arg Ile Gly Ser Phe Ile Pro Ile Pro Gly Ile Asp Ala Ala
 35 40 45
 Val Leu Ala Lys Leu Leu Glu Gln Gln Arg Gly Thr Ile Ile Glu Met
 50 55 60
 Phe Asn Met Phe Ser Gly Gly Ala Leu Ser Arg Ala Ser Ile Phe Ala
 65 70 75 80
 Leu Gly Ile Met Pro Tyr Ile Ser Ala Ser Ile Ile Ile Gln Leu Leu
 85 90 95
 Thr Val Val His Pro Ala Leu Ala Glu Leu Lys Lys Glu Gly Glu Ser
 100 105 110
 Gly Arg Arg Lys Ile Ser Gln Tyr Thr Arg Tyr Gly Thr Leu Val Leu
 115 120 125
 Ala Ile Phe Gln Ser Ile Gly Ile Ala Thr Gly Leu Pro Asn Met Pro
 130 135 140
 Gly Met Gln Gly Leu Val Leu Asn Pro Gly Phe Ala Phe Tyr Phe Thr
 145 150 155 160
 Ala Val Val Ser Leu Val Thr Gly Thr Met Phe Leu Met Trp Leu Gly
 165 170 175
 Glu Gln Ile Thr Glu Arg Gly Ile Gly Asn Gly Ile Ser Ile Ile Ile
 180 185 190
 Phe Ala Gly Ile Val Ala Gly Leu Pro Pro Ala Ile Ala His Thr Ile
 195 200 205
 Glu Gln Ala Arg Gln Gly Asp Leu His Phe Leu Leu Leu Leu Val
 210 215 220
 Ala Val Leu Val Phe Ala Val Thr Phe Phe Val Val Phe Val Glu Arg
 225 230 235 240
 Gly Gln Arg Arg Ile Val Val Asn Tyr Ala Lys Arg Gln Gln Gly Arg
 245 250 255
 Arg Val Tyr Ala Ala Gln Ser Thr His Leu Pro Leu Lys Val Asn Met
 260 265 270
 Ala Gly Val Ile Pro Ala Ile Phe Ala Ser Ser Ile Ile Leu Phe Pro
 275 280 285
 Ala Thr Ile Ala Ser Trp Phe Gly Gly Gly Leu His His Thr Gly Arg
 290 295 300
 Lys Ser Asp Ala
 305

<210> 6013

<211> 170
 <212> PRT
 <213> Enterobacter cloacae

<400> 6013

```

Arg Cys Lys Met Ala His Ile Glu Lys Gln Ala Gly Glu Leu Gln Glu
1      5      10      15
Lys Leu Ile Ala Val Asn Arg Val Ser Lys Thr Val Lys Gly Gly Arg
      20      25      30
Ile Phe Ser Phe Thr Ala Leu Thr Val Val Gly Asp Gly Asn Gly Arg
      35      40      45
Val Gly Phe Gly Tyr Gly Lys Ala Arg Glu Val Pro Ala Ala Ile Gln
      50      55      60
Lys Ala Met Glu Lys Ala Arg Arg Asn Met Ile Asn Val Ala Leu Asn
65      70      75      80
Asn Gly Thr Leu Gln His Pro Val Lys Gly Val His Thr Gly Ser Arg
      85      90      95
Val Phe Met Gln Pro Ala Ser Glu Gly Thr Gly Ile Ile Ala Gly Gly
      100     105     110
Ala Met Arg Ala Val Leu Glu Val Ala Gly Val His Asn Val Leu Ala
      115     120     125
Lys Ala Tyr Gly Ser Thr Asn Pro Ile Asn Val Val Arg Ala Thr Ile
      130     135     140
Asp Gly Leu Glu Asn Met Asn Ser Pro Glu Met Val Ala Ala Lys Arg
145     150     155     160
Gly Lys Ser Val Glu Glu Ile Leu Gly
      165     170

```

<210> 6014
 <211> 62
 <212> PRT
 <213> Enterobacter cloacae

<400> 6014

```

Leu Thr Met Ala Lys Thr Ile Lys Ile Thr Gln Thr Arg Ser Ala Ile
1      5      10      15
Gly Arg Leu Pro Lys His Lys Ala Thr Leu Leu Gly Leu Gly Leu Arg
      20      25      30
Arg Ile Gly His Thr Val Glu Arg Glu Asp Thr Pro Ala Val Arg Gly
      35      40      45
Met Val Asn Ala Val Tyr Phe Met Val Lys Val Glu Glu
      50      55      60

```

<210> 6015
 <211> 146
 <212> PRT
 <213> Enterobacter cloacae

<400> 6015

```

Glu Met Arg Leu Asn Thr Leu Ser Pro Ala Glu Gly Ser Lys Lys Ala
1      5      10      15
Gly Lys Arg Leu Gly Arg Gly Ile Gly Ser Gly Leu Gly Lys Thr Gly
      20      25      30
Gly Arg Gly His Lys Gly Gln Asn Ser Arg Ser Gly Gly Gly Val Arg
      35      40      45
Arg Gly Phe Glu Gly Gly Gln Met Pro Leu Tyr Arg Arg Leu Pro Lys
      50      55      60
Phe Gly Phe Thr Ser Arg Lys Ala Ala Ile Thr Ala Glu Ile Arg Leu
65      70      75      80
Ser Asp Leu Ala Lys Val Glu Gly Gly Val Val Asp Leu Asn Thr Leu
      85      90      95

```

Lys Ala Ala Asn Ile Ile Gly Ile Gln Ile Glu Phe Ala Lys Val Ile
 100 105 110
 Leu Ala Gly Glu Val Ser Thr Pro Val Thr Val Arg Gly Leu Arg Val
 115 120 125
 Thr Lys Gly Ala Arg Ala Ala Ile Glu Ala Ala Gly Gly Lys Ile Glu
 130 135 140
 Glu
 145

<210> 6016
 <211> 91
 <212> PRT
 <213> Enterobacter cloacae

<400> 6016
 Phe Gln Leu Ile Asn Lys Leu Ser Ala Ala Ala Val Ser Trp Arg Arg
 1 5 10 15
 His Gly Val Ile Met Ala Gln Ile Ile Phe Asn Arg Glu Trp Val Val
 20 25 30
 Glu Ala Glu Leu Thr Ala Leu Thr Gly Leu Ser Glu Arg Gln Ile Lys
 35 40 45
 Ala Leu Arg Ser Gly Pro Trp Leu Glu Gly Ile His Phe Lys Arg Gln
 50 55 60
 Ser Met Lys Gly Gly Glu Thr Lys Arg Gly Leu Leu Trp Tyr Asn Tyr
 65 70 75 80
 Pro Arg Ile Asn Gln Leu Val Gln Glu Leu
 85 90

<210> 6017
 <211> 463
 <212> PRT
 <213> Enterobacter cloacae

<400> 6017
 Arg Met Leu Pro Ala Arg Asn Gly Gly Gly Ile His Glu Arg Ala Ala
 1 5 10 15
 Arg Val Gly Ala Gln Arg Arg Thr Pro Lys Arg Met Leu Ala Trp Ile
 20 25 30
 Arg Lys Thr Met Leu Val Ser Thr Gln Trp Pro Glu Ile Lys Lys Gln
 35 40 45
 Leu Thr Lys Trp Leu Asp Thr Pro Pro Ala Lys Arg Glu Pro Val Asp
 50 55 60
 Ile Asn Thr Glu Thr Lys Thr Asp Ser Gly Ala Thr Leu Gly Gly Gly
 65 70 75 80
 Asn Gln Thr Asp Arg Ser Pro Asp Leu Val His Asn Leu Ala Thr Leu
 85 90 95
 Arg Ile Glu Thr Ala Leu Gly Ile Ile Ala Ala Ala Met Asp Phe Asp
 100 105 110
 Ile Tyr Ser Ile Pro Val Glu Ile Met Arg Arg Ala Lys Glu Leu Glu
 115 120 125
 Ser Ser Gly Gly Asp Pro Arg Phe Ser Ala Trp Trp Thr Lys Leu Arg
 130 135 140
 Val Thr Pro Gly Ile Leu Asp Tyr Ser Arg Ala Ala Ile Ile Ala Leu
 145 150 155 160
 Ile Lys Ser Ala Pro Glu Asp Leu Tyr Leu Arg Pro Val Asp Leu Arg
 165 170 175
 Ala Tyr Ile Asn Arg Glu Leu Val Glu Ser Asp His Ala Lys Pro Asp
 180 185 190
 Pro Lys Thr Val Ala Thr Ala Cys Gly Thr Ala Thr Thr Glu Gln Asn
 195 200 205
 Asp Asp Gln Thr Gln Pro Ala Glu Lys Asp Lys Ala Asp Leu Pro Ala

210	215	220
Val Cys Pro Gly Arg	Ala Ala Gln Leu Asp Lys	Glu Leu Asn Glu Ala
225	230	235
Phe Glu Lys Arg Pro	Ser Val Glu Pro Gln Ala Ser Asp	Gln Pro Glu
	245	250
Ile Glu Asn Leu Gly	Gly Gly Val Phe Ser Val	Glu Ala Leu Ile Asn
	260	265
Pro Pro Ser Ser Asn	Glu Val Glu Lys Gln Glu Val	Pro Pro Ala Leu
	275	280
Thr Asp Arg Glu Ile	Glu Ile Ala His Ala Leu Asn	Asp Leu Ile Ala
	290	295
Gly Arg Thr Arg Ile	Met Asp Lys Glu Glu Ala Glu	Gly Val Val Thr
305	310	315
Thr Thr Gly His Ser	Val Ser His Val Ile Pro	Leu Leu Leu Ala Asp
	325	330
Ile Ser Thr Ala Glu	Phe Cys Leu Ser Pro Asp	Phe Ser Asp Glu Glu
	340	345
Ile His Asp Val Ala	Thr Thr Ile Leu Asp Ser	Trp Ser Asp Asp Leu
	355	360
Cys Val Arg Gln Lys	Ile Ala Leu Asp Ala Ile	Val Glu Tyr Arg Arg
	370	375
Pro Ala Pro Pro Lys	Ala Val Val Leu Asp Pro	Pro Phe Ile Thr Ala
385	390	395
Lys Pro Lys Lys Ala	Ala Glu Pro Val Pro Glu	Thr His Thr Ala Ala
	405	410
Pro Leu Asn Tyr Arg	Gln Gln Leu Ile Leu Ala	Ala Met Gln Gly Met
	420	425
Cys Ala Asn Pro Ser	Tyr Arg Cys Asp Phe Glu Asp	Leu Pro Ala Met
	435	440
Ala Ile Glu Leu Ala	Asp Ser Leu Ile Asn Gln	Asp Gly Ile
450	455	460

<210> 6018

<211> 464

<212> PRT

<213> Enterobacter cloacae

<400> 6018

Arg Tyr Thr Leu Gln Thr Pro Val Asn Glu Arg Arg Arg Asn Gln Thr	1	5	10	15
Arg Ser Pro Leu Val Gln Leu Pro Ser His Lys Ser Val Ser Ala Gly	20	25	30	
Ala Val Met Ser Phe Pro Thr Gly Val Glu Ile His Asn Gly Lys Ile	35	40	45	
Arg Ile Ser Phe Thr Tyr Arg Gly Lys Arg Cys Arg Glu Val Leu Lys	50	55	60	
Gly Trp Val Asn Thr Pro Ala Asn Ile Ile Lys Ala Gly Asn Leu Arg	65	70	75	80
Ala Leu Ile Val Ser Glu Ile Gln Met Gly Glu Phe Asp Tyr Ser Arg	85	90	95	
Arg Phe Pro Glu Ser Lys Ala Val Gln Lys Phe Thr Ser Thr Arg Val	100	105	110	
Ala Tyr Thr Trp Gly Asp Leu Asn Glu Leu Trp Leu Ala Ala Lys Glu	115	120	125	
Glu Asp Val Ser Arg Asn Thr Met Thr Arg Leu Leu Ala Gln Leu Arg	130	135	140	
Thr Ile Asn Arg Ile Val Gly Glu Asn Thr Leu Ile Val Asp Ile Thr	145	150	155	160
His Ser Asp Met Leu Arg Tyr Arg Lys Glu Leu Leu Arg Gly Glu Ser	165	170	175	
Phe Tyr Ala Glu Gly Asn Lys Arg Lys Lys Thr Gly Arg Ser Val Asn				


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<210> 6019
<211> 174
<212> PRT
<213> Enterobacter cloacae
```

<400> 6019															
His	Phe	Asp	Trp	Phe	Ala	Ser	His	Ser	Arg	Gly	Glu	Asn	Val	Cys	Arg
1				5					10					15	
Ile	Leu	Leu	Thr	Gly	Trp	Phe	Met	Ser	Ala	Asn	Thr	Glu	Ala	Gln	Gly
			20					25					30		
Ser	Gly	Arg	Gly	Leu	Glu	Ala	Met	Lys	Trp	Val	Val	Val	Ala	Val	Leu
		35					40					45			
Leu	Ile	Val	Ala	Ile	Val	Gly	Asn	Tyr	Leu	Tyr	Arg	Asp	Met	Met	Leu
	50					55					60				
Pro	Leu	Arg	Ala	Leu	Ala	Val	Val	Ile	Leu	Ile	Ala	Ala	Ala	Gly	Gly
65					70					75					80
Val	Ala	Leu	Leu	Thr	Thr	Lys	Gly	Lys	Ala	Thr	Val	Ala	Phe	Ala	Arg
				85					90					95	
Glu	Ala	Arg	Thr	Glu	Val	Arg	Lys	Val	Ile	Trp	Pro	Thr	Arg	Gln	Glu
			100					105					110		
Thr	Leu	His	Thr	Thr	Leu	Ile	Val	Ala	Ala	Val	Asn	Arg	Cys	Asn	Val
		115					120					125			
Thr	Asp	Pro	Val	Gly	Thr	Gly	Trp	Tyr	Ser	Gly	Ser	Pro	Gly	Ile	Leu
	130					135					140				
Tyr	His	Trp	Pro	Glu	Val	Leu	Arg	Cys	Leu	Lys	Pro	Leu	Lys	Ser	Ala

145 150 155 160
Gly Thr Ser Phe Arg Arg Phe Pro Val Leu Lys Ala Ala
 165 170

```
<210> 6020
<211> 407
<212> PRT
<213> Enterobacter cloacae
```

<400>	6020														
Tyr	His	Arg	Phe	Ile	Arg	Val	Leu	Glu	Gly	Gln	Ser	Met	Ser	Lys	Glu
1				5					10					15	
Lys	Phe	Glu	Arg	Thr	Lys	Pro	His	Val	Asn	Val	Gly	Thr	Ile	Gly	His
			20					25					30		
Val	Asp	His	Gly	Lys	Thr	Thr	Leu	Thr	Ala	Ala	Ile	Thr	Thr	Val	Leu
		35					40					45			
Ala	Lys	Thr	Tyr	Gly	Gly	Ala	Ala	Arg	Ala	Phe	Asp	Gln	Ile	Asp	Asn
	50					55				60					
Ala	Pro	Glu	Glu	Lys	Ala	Arg	Gly	Ile	Thr	Ile	Asn	Thr	Ser	His	Val
65				70						75					80
Glu	Tyr	Asp	Thr	Pro	Thr	Arg	His	Tyr	Ala	His	Val	Asp	Cys	Pro	Gly
			85						90					95	
His	Ala	Asp	Tyr	Val	Lys	Asn	Met	Ile	Thr	Gly	Ala	Ala	Gln	Met	Asp
			100					105					110		
Gly	Ala	Ile	Leu	Val	Val	Ala	Ala	Thr	Asp	Gly	Pro	Met	Pro	Gln	Thr
		115					120					125			
Arg	Glu	His	Ile	Leu	Leu	Gly	Arg	Gln	Val	Gly	Val	Pro	Tyr	Ile	Ile
	130					135					140				
Val	Phe	Leu	Asn	Lys	Cys	Asp	Met	Val	Asp	Asp	Glu	Glu	Leu	Leu	Glu
145				150					155						160
Leu	Val	Glu	Met	Glu	Val	Arg	Glu	Leu	Leu	Ser	Gln	Tyr	Asn	Phe	Pro
			165						170					175	
Gly	Asp	Asp	Thr	Pro	Ile	Val	Arg	Gly	Ser	Ala	Leu	Lys	Ala	Leu	Glu
			180					185					190		
Gly	Glu	Ala	Glu	Trp	Glu	Glu	Lys	Ile	Ile	Glu	Leu	Ala	Gly	Tyr	Leu
		195					200					205			
Asp	Ser	Tyr	Ile	Pro	Glu	Pro	Glu	Arg	Ala	Ile	Asp	Lys	Pro	Phe	Leu
	210					215				220					
Leu	Pro	Ile	Glu	Asp	Val	Phe	Ser	Ile	Ser	Gly	Arg	Gly	Thr	Val	Val
225				230						235				240	
Thr	Gly	Arg	Val	Glu	Arg	Gly	Ile	Ile	Lys	Val	Gly	Glu	Glu	Val	Glu
			245						250					255	
Ile	Val	Gly	Ile	Lys	Glu	Thr	Ala	Lys	Ser	Thr	Cys	Thr	Gly	Val	Glu
			260					265					270		
Met	Phe	Arg	Lys	Leu	Leu	Asp	Glu	Gly	Arg	Ala	Gly	Glu	Asn	Val	Gly
	275						280					285			
Val	Leu	Leu	Arg	Gly	Ile	Lys	Arg	Glu	Glu	Ile	Glu	Arg	Gly	Gln	Val
	290					295					300				
Leu	Ala	Lys	Pro	Gly	Ser	Ile	Lys	Pro	His	Thr	Lys	Phe	Glu	Ser	Glu
305				310						315					320
Val	Tyr	Ile	Leu	Ser	Lys	Asp	Glu	Gly	Gly	Arg	His	Thr	Pro	Phe	Phe
			325						330					335	
Lys	Gly	Tyr	Arg	Pro	Gln	Phe	Tyr	Phe	Arg	Thr	Thr	Asp	Val	Thr	Gly
			340					345					350		
Thr	Ile	Glu	Leu	Pro											

405

<210> 6021
 <211> 185
 <212> PRT
 <213> Enterobacter cloacae

<400> 6021

Gly	Ser	Glu	Met	Ser	Glu	Ala	Pro	Lys	Lys	Arg	Trp	Tyr	Val	Val	Gln
1				5					10					15	
Ala	Phe	Ser	Gly	Phe	Glu	Gly	Arg	Val	Ala	Thr	Ser	Leu	Arg	Glu	His
			20					25					30		
Ile	Lys	Leu	His	Asn	Met	Glu	Glu	Leu	Phe	Gly	Glu	Val	Met	Val	Pro
		35					40					45			
Thr	Glu	Glu	Val	Val	Glu	Ile	Arg	Gly	Gly	Gln	Arg	Arg	Lys	Ser	Glu
	50					55				60					
Arg	Lys	Phe	Phe	Pro	Gly	Tyr	Val	Leu	Val	Gln	Met	Val	Met	Asn	Asp
65					70					75				80	
Ala	Ser	Trp	His	Leu	Val	Arg	Ser	Val	Pro	Arg	Val	Met	Gly	Phe	Ile
			85						90					95	
Gly	Gly	Thr	Ser	Asp	Arg	Pro	Ala	Pro	Ile	Ser	Asp	Lys	Glu	Val	Asp
			100					105					110		
Ala	Ile	Met	Asn	Arg	Leu	Gln	Gln	Val	Gly	Asp	Lys	Pro	Arg	Pro	Lys
		115					120					125			
Thr	Leu	Phe	Glu	Pro	Gly	Glu	Met	Val	Arg	Val	Asn	Asp	Gly	Pro	Phe
	130					135					140				
Ala	Asp	Phe	Asn	Gly	Val	Val	Glu	Glu	Val	Asp	Tyr	Glu	Lys	Ser	Arg
145					150					155					160
Leu	Lys	Val	Ser	Val	Ser	Ile	Phe	Gly	Arg	Ala	Thr	Pro	Val	Glu	Leu
				165					170					175	
Asp	Phe	Ala	Gln	Val	Glu	Lys	Ala								
			180					185							

<210> 6022
 <211> 103
 <212> PRT
 <213> Enterobacter cloacae

<400> 6022

Thr	Pro	Gly	Leu	Arg	Ser	Ser	Asn	Gly	Gly	Pro	Val	Val	Leu	Phe	Thr
1				5					10					15	
Gln	Glu	Asp	Val	Met	Val	Thr	Ile	Arg	Leu	Ala	Arg	His	Gly	Ala	Lys
		20						25					30		
Lys	Arg	Pro	Phe	Tyr	Gln	Val	Val	Val	Thr	Asp	Ser	Arg	Asn	Ala	Arg
		35					40					45			
Asn	Gly	Arg	Phe	Ile	Glu	Arg	Val	Gly	Phe	Phe	Asn	Pro	Leu	Ala	Ala
	50					55				60					
Gly	Ala	Glu	Glu	Glu	Thr	Arg	Leu	Asp	Leu	Asp	Arg	Ile	Ala	His	Trp
65					70					75				80	
Val	Gly	Gln	Gly	Val	Thr	Val	Ser	Asp	Arg	Val	Ala	Thr	Leu	Ile	Lys
				85					90					95	
Ala	Ala	Asn	Lys	Ala	Ala										
			100												

<210> 6023
 <211> 185
 <212> PRT
 <213> Enterobacter cloacae

<400> 6023

Ser	Val	Thr	Val	Val	Met	Met	Ser	Asn	Lys	Ala	Pro	Val	Glu	Pro	Ile
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1				5					10				15
Val	Leu	Gly	Lys	Met	Gly	Ser	Cys	Tyr	Gly	Ile	Arg	Gly	Trp
			20					25				30	
Val	Phe	Ser	Ser	Thr	Glu	Asp	Ala	Asp	Ser	Ile	Phe	Asp	Tyr
		35					40				45		
Trp	Phe	Ile	Gln	Lys	Ala	Gly	Lys	Trp	Glu	Glu	Val	Glu	Leu
		50				55					60		
Trp	Arg	His	His	Asn	Gln	Asp	Ile	Ile	Ile	Lys	Leu	Lys	Gly
65					70				75				80
Asp	Arg	Asp	Ala	Ala	Asn	Ala	Leu	Thr	Asn	Cys	Glu	Ile	Val
				85					90				95
Ser	Ser	Gln	Leu	Pro	Gln	Leu	Glu	Glu	Gly	Asp	Tyr	Tyr	Trp
			100					105				110	
Leu	Met	Gly	Cys	Gln	Val	Val	Thr	Thr	Glu	Gly	Tyr	Ser	Leu
		115					120				125		
Val	Ile	Asp	Met	Met	Glu	Thr	Gly	Ser	Asn	Asp	Val	Leu	Val
		130				135					140		
Ala	Asn	Leu	Lys	Asp	Ala	Phe	Gly	Ile	Lys	Glu	Arg	Leu	Val
145					150					155			160
Leu	Asp	Gly	Gln	Val	Ile	Lys	Lys	Val	Asp	Leu	Thr	Thr	Gln
			165						170				175
Glu	Val	Asp	Trp	Asp	Pro	Gly	Phe						
			180					185					

<210> 6024

<211> 147

<212> PRT

<213> Enterobacter cloacae

<400> 6024

Val	Glu	Ala	Gln	Asn	Arg	Glu	Arg	Asp	Gly	Val	Leu	Arg	Ile	Lys	Ala
1				5					10					15	
Glu	Met	Glu	Asn	Leu	Arg	Arg	Arg	Thr	Glu	Leu	Asp	Val	Glu	Lys	Ala
			20					25				30			
His	Lys	Phe	Ala	Leu	Glu	Lys	Phe	Val	Asn	Glu	Leu	Leu	Pro	Val	Ile
		35					40				45				
Asp	Ser	Leu	Asp	Arg	Ala	Leu	Glu	Val	Ala	Asp	Lys	Ala	Asn	Pro	Asp
		50				55					60				
Asn	Ala	Ala	Met	Ile	Glu	Gly	Ile	Glu	Leu	Thr	Leu	Lys	Ser	Met	Leu
65					70				75						80
Asp	Val	Val	Arg	Lys	Phe	Gly	Val	Glu	Val	Ile	Ala	Asp	Thr	Asp	Val
				85					90					95	
Pro	Leu	Asp	Pro	Asn	Val	His	Gln	Ala	Ile	Ala	Met	Val	Glu	Ser	Glu
			100					105					110		
Asp	Val	Ala	Ala	Gly	Asn	Val	Leu	Gly	Val	Met	Gln	Lys	Gly	Tyr	Thr
		115					120					125			
Leu	Asn	Gly	Arg	Thr	Ile	Arg	Ala	Ala	Met	Val	Thr	Val	Ala	Lys	Ala
	130					135					140				
Lys	Ala														
145															

<210> 6025

<211> 463

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (101)

<220>

<221>UNSURE

<222>(105)

<400> 6025

Arg	Phe	Tyr	Pro	Arg	Arg	Glu	Thr	Met	Phe	Asp	Asn	Leu	Thr	Asp	Arg
1				5					10					15	
Leu	Ser	Arg	Thr	Leu	Arg	Asn	Ile	Ser	Gly	Arg	Gly	Arg	Leu	Thr	Glu
			20					25					30		
Glu	Asn	Ile	Lys	Glu	Thr	Leu	Arg	Glu	Val	Arg	Met	Ala	Leu	Leu	Glu
		35				40						45			
Ala	Asp	Val	Ala	Leu	Pro	Val	Val	Arg	Asp	Phe	Ile	Asn	Arg	Val	Lys
	50					55					60				
Glu	Lys	Ala	Val	Gly	His	Glu	Val	Asn	Lys	Ser	Leu	Thr	Pro	Gly	Gln
65					70					75					80
Glu	Phe	Val	Lys	Ile	Val	Arg	Asn	Glu	Leu	Phe	Ser	Ala	Met	Gly	Glu
				85					90					95	
Glu	Asn	Gln	Val	Xaa	Asn	Leu	Ala	Xaa	Gln	Pro	Pro	Ala	Val	Val	Leu
			100					105					110		
Met	Ala	Gly	Leu	Gln	Gly	Ala	Gly	Lys	Thr	Thr	Ser	Val	Gly	Lys	Leu
		115					120						125		
Gly	Lys	Phe	Leu	Arg	Glu	Lys	His	Lys	Lys	Lys	Val	Leu	Val	Val	Ser
	130					135					140				
Ala	Asp	Val	Tyr	Arg	Pro	Ala	Ala	Ile	Lys	Gln	Leu	Glu	Thr	Leu	Ala
145					150					155					160
Glu	Gln	Val	Gly	Val	Asp	Phe	Phe	Pro	Ser	Asp	Val	Ala	Gln	Lys	Pro
				165					170					175	
Val	Asp	Ile	Val	Asn	Ala	Ala	Leu	Lys	Glu	Ala	Lys	Leu	Lys	Phe	Tyr
			180					185						190	
Asp	Val	Leu	Leu	Val	Asp	Thr	Ala	Gly	Arg	Leu	His	Val	Asp	Glu	Ala
		195					200						205		
Met	Met	Asp	Glu	Ile	Lys	Gln	Val	His	Ala	Ser	Ile	Asn	Pro	Val	Glu
	210					215						220			
Thr	Leu	Phe	Val	Val	Asp	Ala	Met	Thr	Gly	Gln	Asp	Ala	Ala	Asn	Thr
225					230						235				240
Ala	Lys	Ala	Phe	Asn	Glu	Ala	Leu	Pro	Leu	Thr	Gly	Val	Val	Leu	Thr
				245					250					255	
Lys	Val	Asp	Gly	Asp	Ala	Arg	Gly	Gly	Ala	Ala	Leu	Ser	Ile	Arg	His
			260					265						270	
Ile	Thr	Gly	Lys	Pro	Ile	Lys	Phe	Leu	Gly	Val	Gly	Glu	Lys	Thr	Glu
		275					280						285		
Ala	Leu	Glu	Pro	Phe	His	Pro	Asp	Arg	Ile	Ala	Ser	Arg	Ile	Leu	Gly
	290					295					300				
Met	Gly	Asp	Val	Leu	Ser	Leu	Ile	Glu	Asp	Ile	Glu	Ser	Lys	Val	Asp
305					310					315					320
Arg	Ala	Gln	Ala	Glu	Lys	Leu	Ala	Ser	Lys	Leu	Lys	Lys	Gly	Asp	Gly
				325					330					335	
Phe	Asp	Leu	Thr	Asp	Phe	Leu	Glu	Gln	Leu	Arg	Gln	Met	Lys	Asn	Met
			340					345						350	
Gly	Gly	Met	Ala	Ser	Leu	Met	Gly	Lys	Leu	Pro	Gly	Met	Gly	Gln	Ile
		355					360						365		
Pro	Asp	Asn	Val	Lys	Ser	Gln	Met	Asp	Asp	Lys	Val	Leu	Val	Arg	Met
	370					375					380				
Glu	Ala	Ile	Ile	Asn	Ser	Met	Thr	Leu	Lys	Glu	Arg	Ala	Lys	Pro	Glu
385					390					395					400
Ile	Ile	Lys	Gly	Ser	Arg	Lys	Arg	Arg	Ile	Ala	Ala	Gly	Cys	Gly	Met
				405					410					415	
His	Val	Gln	Asp	Val	Asn	Arg	Leu	Leu	Lys	Gln	Phe	Asp	Asp	Met	Gln
			420					425					430		
Arg	Met	Met	Arg	Lys	Met	Lys	Lys	Ala	Gly	Met	Ala	Glu	Asp	Asp	Ala
		435					440					445			
Arg	His	Glu	Lys	His	Asp	Ala	Ala	Pro	Phe	Ser	Leu	Gly	Glu		

450

455

460

<210> 6026

<211> 262

<212> PRT

<213> Enterobacter cloacae

<400> 6026

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Thr Val Lys Asp Gly Ala Met Trp Ile Gly Ile Ile Ser Leu Phe Pro
1      5      10      15
Glu Met Phe Arg Ala Ile Thr Asp Tyr Gly Val Thr Gly Arg Ala Val
      20      25      30
Lys Asn Gly Leu Leu Ser Ile Gln Ser Trp Ser Pro Arg Asp Phe Thr
      35      40      45
His Asp Arg His Arg Thr Val Asp Asp Arg Pro Tyr Gly Gly Gly Pro
      50      55      60
Gly Met Leu Met Met Val Gln Pro Leu Arg Asp Ala Ile His Thr Ala
65      70      75      80
Lys Ala Ala Ala Gly Glu Gly Ala Lys Val Ile Tyr Leu Ser Pro Gln
      85      90      95
Gly Arg Lys Leu Asp Gln Ala Gly Val Ser Glu Leu Ala Thr Asn Gln
      100     105     110
Lys Leu Ile Leu Val Cys Gly Arg Tyr Glu Gly Ile Asp Glu Arg Val
      115     120     125
Ile Gln Thr Glu Ile Asp Glu Glu Trp Ser Ile Gly Asp Tyr Val Leu
      130     135     140
Ser Gly Gly Glu Leu Pro Ala Met Thr Leu Ile Asp Ser Val Ala Arg
145     150     155     160
Phe Ile Pro Gly Val Leu Gly His Glu Ala Ser Ala Thr Glu Asp Ser
      165     170     175
Phe Ala Asp Gly Val Leu Asp Cys Pro His Tyr Thr Arg Pro Glu Val
      180     185     190
Leu Glu Gly Met Glu Val Pro Ala Val Leu Leu Ser Gly Asn His Ala
      195     200     205
Asp Ile Arg Arg Trp Arg Leu Lys Gln Ser Leu Gly Arg Thr Trp Leu
      210     215     220
Arg Arg Pro Glu Leu Leu Glu Asn Leu Ala Leu Thr Glu Glu Gln Ala
225     230     235     240
Lys Leu Leu Ala Glu Phe Lys Thr Glu His Ala His Gln Gln His Glu
      245     250     255
His Asp Gly Lys Ala
      260

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<210> 6027

<211> 296

<212> PRT

<213> Enterobacter cloacae

<400> 6027

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His Glu Gly Ala Phe Val Val Met Gln Arg Leu Glu Gln Ala Ser Arg
1      5      10      15
Asn Val Ile Leu Leu Leu Phe Leu Ile Lys Thr Thr Val Asp Ala Tyr
      20      25      30
Met Pro Val Phe Ala Leu Ile Ala Leu Val Ala Tyr Ser Val Ser Leu
      35      40      45
Ala Leu Ile Ile Pro Gly Leu Leu Gln Lys Asn Ser Gly Trp Arg Arg
      50      55      60
Met Ala Ile Leu Ser Ala Val Ile Ala Leu Ile Ser His Ala Phe Ala
65      70      75      80
Leu Glu Ser Arg Ile Ile Pro Gly Asp Gly Ser Val Gln Asn Leu Ser
      85      90      95

```

Val	Leu	Asn	Val	Gly	Ser	Leu	Val	Ser	Leu	Met	Ile	Cys	Thr	Val	Met
		100						105					110		
Thr	Ile	Val	Ala	Ser	Lys	Asn	Arg	Gly	Trp	Leu	Leu	Leu	Pro	Ile	Val
		115					120					125			
Tyr	Ala	Phe	Ala	Leu	Ile	Asn	Leu	Ala	Leu	Ala	Thr	Phe	Met	Pro	Asn
	130					135					140				
Glu	Phe	Ile	Thr	His	Leu	Glu	Ala	Thr	Pro	Gly	Met	Leu	Val	His	Ile
145					150					155					160
Gly	Leu	Ser	Leu	Phe	Ala	Tyr	Ala	Thr	Leu	Ile	Ile	Ala	Ala	Leu	Tyr
				165					170						175
Ala	Met	Gln	Leu	Ala	Trp	Ile	Asp	Tyr	Gln	Leu	Lys	Asn	Lys	Lys	Leu
		180						185					190		
Ala	Phe	Asn	His	Glu	Met	Pro	Pro	Leu	Met	Val	Ile	Glu	Arg	Lys	Met
		195					200					205			
Phe	His	Ile	Thr	Gln	Val	Gly	Val	Val	Leu	Leu	Thr	Leu	Thr	Leu	Cys
	210					215					220				
Thr	Gly	Leu	Phe	Tyr	Met	Lys	Asn	Leu	Phe	Ser	Val	Glu	Asn	Ile	Asp
225					230					235					240
Lys	Ala	Val	Leu	Ser	Ile	Ile	Ala	Trp	Phe	Val	Tyr	Ile	Val	Leu	Leu
				245					250						255
Trp	Gly	His	Tyr	His	Glu	Gly	Trp	Arg	Gly	Arg	Arg	Val	Val	Trp	Phe
		260						265					270		
Asn	Val	Ala	Gly	Ala	Gly	Ile	Leu	Thr	Leu	Ala	Tyr	Phe	Gly	Ser	Arg
		275					280					285			
Phe	Ile	Gln	Gln	Phe	Ala	Gly									
	290					295									

<210> 6028

<211> 434

<212> PRT

<213> Enterobacter cloacae

<400> 6028

Gln	Lys	Glu	Phe	Pro	Leu	Glu	His	Ile	Ser	Thr	Thr	Thr	Leu	Ile	Val
1				5					10					15	
Ile	Leu	Val	Ile	Met	Val	Val	Ile	Ser	Ala	Tyr	Phe	Ser	Gly	Ser	Glu
			20					25					30		
Thr	Gly	Met	Met	Thr	Leu	Asn	Arg	Tyr	Arg	Leu	Arg	His	Arg	Ala	Lys
		35					40					45			
Gln	Gly	Asn	Arg	Ala	Ala	Arg	Arg	Val	Glu	Lys	Leu	Leu	Arg	Lys	Pro
	50					55					60				
Asp	Arg	Leu	Ile	Ser	Leu	Val	Leu	Ile	Gly	Asn	Asn	Leu	Val	Asn	Ile
65					70				75						80
Leu	Ala	Ser	Ala	Leu	Gly	Thr	Ile	Val	Gly	Met	Arg	Leu	Tyr	Gly	Asn
				85					90					95	
Ala	Gly	Val	Ala	Ile	Ala	Thr	Gly	Val	Leu	Thr	Phe	Val	Val	Leu	Val
			100					105					110		
Phe	Ala	Glu	Val	Leu	Pro	Lys	Thr	Ile	Ala	Ala	Leu	Tyr	Pro	Glu	Lys
	115						120					125			
Val	Ala	Tyr	Pro	Ser	Ser	Phe	Leu	Leu	Ala	Pro	Leu	Leu	Ile	Leu	Met
	130					135					140				
Met	Pro	Leu	Val	Trp	Leu	Leu	Asn	Met	Val	Thr	Arg	Val	Leu	Met	Arg
145					150					155					160
Met	Val	Gly	Ile	Lys	Ala	Asp	Val	Thr	Ile	Ser	Ser	Ala	Leu	Ser	Lys
				165					170						175
Asp	Glu	Leu	Arg	Thr	Ile	Val	Asn	Glu	Ser	Arg	Ser	Gln	Ile	Ser	Arg
			180					185					190		
Arg	Asn	Gln	Asp	Met	Leu	Leu	Ser	Val	Leu	Asp	Leu	Glu	Lys	Val	Ser
		195					200					205			
Val	Asp	Asp	Ile	Met	Val	Pro	Arg	Asn	Glu	Ile	Val	Gly	Ile	Asp	Ile
	210					215						220			

Asn	Asp	Asp	Trp	Lys	Ala	Ile	Val	Arg	Gln	Leu	Thr	His	Ser	Pro	His
225					230					235					240
Gly	Arg	Ile	Val	Leu	Tyr	Arg	Asp	Ser	Leu	Asp	Asp	Ala	Ile	Ser	Met
				245					250					255	
Leu	Arg	Val	Arg	Glu	Ala	Tyr	Arg	Leu	Met	Thr	Glu	Lys	Asn	Glu	Phe
			260					265					270		
Thr	Lys	Glu	Val	Met	Leu	Arg	Ala	Ala	Asp	Glu	Ile	Tyr	Tyr	Val	Pro
		275					280					285			
Glu	Gly	Thr	Pro	Leu	Ser	Thr	Gln	Leu	Val	Lys	Phe	Gln	Arg	Asn	Lys
	290					295					300				
Lys	Lys	Val	Gly	Leu	Val	Val	Asp	Glu	Tyr	Gly	Asp	Ile	Gln	Gly	Leu
305				310						315					320
Val	Thr	Val	Glu	Asp	Ile	Leu	Glu	Glu	Ile	Val	Gly	Asp	Phe	Thr	Thr
			325					330						335	
Ser	Met	Ser	Pro	Ser	Leu	Ala	Glu	Glu	Val	Thr	Pro	Gln	Asn	Asp	Gly
			340				345						350		
Ser	Val	Leu	Ile	Asp	Gly	Ser	Ala	Asn	Ile	Arg	Glu	Ile	Asn	Lys	Ala
		355					360					365			
Phe	Asn	Trp	His	Leu	Pro	Glu	Asp	Glu	Ala	Arg	Thr	Met	Asn	Gly	Met
	370					375					380				
Ile	Leu	Glu	Ala	Leu	Glu	Glu	Ile	Pro	Ala	Thr	Gly	Thr	Arg	Val	Arg
385				390						395					400
Ile	Glu	Gln	Tyr	Asp	Ile	Asp	Ile	Leu	Asp	Val	Gln	Asp	Asn	Met	Ile
			405					410						415	
Lys	Gln	Val	Lys	Val	Leu	Pro	Val	Lys	Pro	Leu	Arg	Glu	Ser	Ile	Ala
			420					425					430		

Glu

<210> 6029

<211> 365

<212> PRT

<213> Enterobacter cloacae

<400> 6029

Arg	Pro	Arg	Trp	Gly	Glu	Lys	Ile	Lys	Arg	Phe	Ser	Asp	Leu	Ile	Ile
1				5					10					15	
Lys	Glu	Ser	Arg	His	His	Met	Ala	Val	Ala	Lys	Lys	Ile	Thr	Ile	Asn
			20					25					30		
Asp	Val	Ala	Leu	Ala	Ala	Gly	Val	Ser	Val	Ser	Thr	Val	Ser	Leu	Val
		35				40						45			
Leu	Ser	Gly	Lys	Gly	Arg	Ile	Ser	Pro	Ala	Thr	Gly	Gln	Arg	Val	Asn
	50					55					60				
Glu	Ala	Val	Glu	Gln	Leu	Gly	Phe	Val	Arg	Asn	Arg	Gln	Ala	Ser	Ala
65				70					75					80	
Leu	Arg	Gly	Gly	Gln	Ser	Gly	Val	Ile	Gly	Leu	Ile	Val	Arg	Asp	Leu
			85					90						95	
Ala	Ser	Pro	Phe	Tyr	Ala	Glu	Leu	Thr	Ala	Gly	Leu	Thr	Glu	Ala	Leu
			100					105					110		
Glu	Ala	Gln	Gly	Arg	Met	Val	Phe	Leu	Leu	His	Gly	Gly	Arg	Glu	Pro
		115					120					125			
Glu	Gln	Leu	Leu	Ser	Arg	Leu	Asp	Leu	Leu	Leu	Thr	Gln	Gly	Val	Asp
	130					135						140			
Gly	Val	Ile	Val	Ala	Gly	Ala	Ser	Gly	Val	Gly	Ser	Glu	Leu	Cys	Glu
145				150						155					160
Arg	Ala	Ala	Gln	Lys	Gly	Val	Pro	Leu	Val	Phe	Ala	Ser	Arg	Ala	Ser
			165					170						175	
Tyr	Leu	Asp	Glu	Ala	Asp	Thr	Leu	Arg	Pro	Asp	Asn	Met	Gln	Ala	Ala
		180						185					190		
Gln	Met	Leu	Thr	Glu	His	Leu	Ile	His	Arg	Gly	His	Gln	Arg	Ile	Ala
		195					200					205			

Trp Leu Gly Gly Lys Ser Ser Ser Leu Thr Arg Ala Glu Arg Val Gly
 210 215 220
 Gly Tyr Cys Ser Thr Leu Ile Lys Tyr Gly Leu Pro Phe His Ser Glu
 225 230 235 240
 Trp Val Val Glu Cys Glu Ser Ser Gln Lys Lys Ala Ala Glu Ala Ile
 245 250 255
 Gly Thr Leu Leu Arg Asn Ser Pro Thr Ile Ser Ala Val Ile Cys Tyr
 260 265 270
 Asn Asp Val Ile Ala Met Gly Ala Trp Phe Gly Leu Ile Arg Ala Gly
 275 280 285
 Arg Gln Ser Gly Glu Gly Gly Val Glu Thr Phe Phe Gly His Gln Val
 290 295 300
 Ala Leu Gly Ala Phe Ala Asp Val Gly Glu Asn Ala Leu Asp Asp Leu
 305 310 315 320
 Pro Ile Val Trp Ala Thr Thr Pro Ala Arg Glu Met Gly Tyr Thr Leu
 325 330 335
 Ala Glu Arg Ile Met Gln Arg Ile Glu Asn Thr Asp Val Gln Ala Gly
 340 345 350
 His Gln Ile Val Ala Ala Arg Leu Leu Thr Val Lys
 355 360 365

<210> 6030

<211> 231

<212> PRT

<213> Enterobacter cloacae

<400> 6030

Ile Ser Phe Tyr Pro Leu Arg Ser Arg Phe Met Thr Thr Lys Ala Ala
 1 5 10 15
 Gln Lys Ile Ser Leu Trp Glu Phe Phe Gln Gln Leu Gly Lys Thr Phe
 20 25 30
 Met Leu Pro Val Ala Leu Leu Ser Phe Cys Gly Ile Met Leu Gly Ile
 35 40 45
 Gly Ser Ser Leu Ser Ser His Asp Val Ile Thr Leu Ile Pro Phe Leu
 50 55 60
 Gly Asn Pro Val Leu Gln Ala Ile Phe Ile Trp Met Ser Lys Val Gly
 65 70 75 80
 Ser Phe Ala Phe Ser Phe Leu Pro Val Met Phe Cys Ile Ala Ile Pro
 85 90 95
 Leu Gly Leu Ala Arg Glu Asn Lys Gly Val Ala Ala Phe Ala Gly Phe
 100 105 110
 Val Gly Tyr Ala Val Met Asn Leu Ala Val Asn Phe Trp Leu Thr Ala
 115 120 125
 Lys Gly Ile Leu Pro Thr Thr Asp Ala Ala Val Val Lys Ala Asn Asn
 130 135 140
 Ile Gln Ser Val Ile Gly Ile Gln Ser Ile Asp Thr Gly Ile Leu Gly
 145 150 155 160
 Ala Val Ile Ala Gly Val Ile Ile Trp Met Leu His Glu Arg Phe His
 165 170 175
 Asn Ile Arg Leu Pro Asp Ala Leu Ala Phe Phe Gly Gly Thr Arg Phe
 180 185 190
 Val Pro Ile Ile Thr Leu Val Val Met Gly Leu Phe Gly Leu Ile Ile
 195 200 205
 Pro Leu Ile Trp Pro Ile Phe Ala Met Gly Asp His Arg Asp Trp Pro
 210 215 220
 His Tyr Gln Arg Arg Gly
 225 230

<210> 6031

<211> 201

<212> PRT

<213> Enterobacter cloacae

<400> 6031

Gly Gly Phe Thr Leu Arg Ser Thr Val Met Phe Asp Phe Ser Thr Val
 1 5 10 15
 Val Asp Arg His Gly Thr Trp Cys Thr Gln Trp Asp Tyr Val Ala Asp
 20 25 30
 Arg Phe Gly Ala Ala Asp Leu Leu Pro Phe Thr Ile Ser Asp Met Asp
 35 40 45
 Phe Ala Thr Ala Pro Cys Ile Thr Asp Ala Leu His Gln Arg Ile Asn
 50 55 60
 His Gly Val Phe Gly Tyr Ser Arg Trp Lys Asn Asp Glu Phe Leu Ala
 65 70 75 80
 Ala Val Ala His Trp Phe Arg Gln Arg Phe Asn Ser Gln Ile Asp Thr
 85 90 95
 Glu Thr Val Val Tyr Gly Pro Ser Val Ile Tyr Met Val Ser Glu Leu
 100 105 110
 Ile Arg Leu Trp Ser Ser Pro Gly Asp Gly Val Val Val His Thr Pro
 115 120 125
 Ala Tyr Asp Ala Phe Tyr Lys Ala Ile Glu Gly Asn Gln Arg Thr Val
 130 135 140
 Val Ser Val Pro Met Gln Lys Thr Ala His Gly Trp Glu Gly Asp Met
 145 150 155 160
 Ala Ser Leu Glu Thr Ala Leu Ser Lys Pro Glu Asn Lys Val Leu Leu
 165 170 175
 Leu Cys Tyr Pro Gln Asn Pro Thr Gly Lys Ile Trp Thr Arg Glu Ala
 180 185 190
 Leu Asn Thr Met Gly Gly Pro Val
 195 200

<210> 6032

<211> 331

<212> PRT

<213> Enterobacter cloacae

<400> 6032

Phe Gly Arg Phe Leu Pro Trp Gly Ile Thr Gly Ile Gly Arg Ile Ile
 1 5 10 15
 Asn Gly Ala Gly Asp Phe Gly Pro Met Ile Phe Gly Thr Gly Glu Arg
 20 25 30
 Leu Leu Leu Pro Phe Gly Leu Gln His Ile Leu Val Ala Leu Ile Arg
 35 40 45
 Phe Thr Glu Ala Gly Gly Thr Met Asp Val Cys Gly His Ser Val Ser
 50 55 60
 Gly Ala Leu Thr Ile Phe Gln Ala Gln Leu Ser Cys Pro Thr Thr His
 65 70 75 80
 Gly Phe Ser Glu Ser Ala Thr Arg Phe Leu Ser Gln Gly Lys Met Pro
 85 90 95
 Ala Phe Leu Gly Gly Leu Pro Gly Ala Ala Leu Ala Met Tyr His Cys
 100 105 110
 Ala Arg Pro Glu Asn Arg His Lys Ile Lys Gly Leu Leu Ile Ser Gly
 115 120 125
 Val Ile Ala Cys Val Val Gly Gly Thr Thr Glu Pro Ile Glu Phe Leu
 130 135 140
 Phe Leu Phe Val Ala Pro Val Leu Tyr Leu Ile His Ala Val Leu Thr
 145 150 155 160
 Gly Leu Gly Phe Thr Val Met Ala Val Leu Gly Val Thr Ile Gly Asn
 165 170 175
 Thr Asp Gly Asn Val Ile Asp Phe Val Val Phe Gly Ile Leu His Gly
 180 185 190
 Leu Ser Thr Lys Trp Tyr Leu Val Pro Val Val Ala Ala Ile Trp Phe

	195					200			205						
Ala	Val	Tyr	Tyr	Gly	Ile	Phe	Arg	Phe	Ala	Ile	Thr	Arg	Phe	Asn	Leu
	210					215					220				
Lys	Thr	Pro	Gly	Arg	Asp	Thr	Asp	Thr	Ala	Thr	Ser	Val	Glu	Gln	Ala
225					230					235					240
Val	Ala	Gly	Thr	Val	Gly	Lys	Ser	Gly	Tyr	Asn	Thr	Pro	Ala	Ile	Leu
				245					250					255	
Ala	Ala	Leu	Gly	Gly	Ala	Asp	Asn	Ile	Thr	Ser	Leu	Asp	Asn	Cys	Ile
			260					265					270		
Thr	Arg	Leu	Arg	Leu	Ser	Val	Ala	Asp	Met	Ser	Lys	Val	Asp	Thr	Asn
	275						280					285			
Ala	Leu	Lys	Ala	Asn	Arg	Ala	Ile	Gly	Val	Val	Gln	Leu	Asn	Gln	His
	290					295					300				
Asn	Leu	Gln	Val	Val	Ile	Gly	Pro	Gln	Val	Gln	Ser	Val	Lys	Asp	Glu
305					310					315					320
Leu	Ala	Thr	Leu	Met	Arg	Thr	Val	Glu	Ala						
				325					330						

<210> 6033

<211> 345

<212> PRT

<213> Enterobacter cloacae

<400> 6033

Leu	Ser	Ala	Arg	Gly	Gly	Thr	Met	Thr	Gln	Pro	Leu	Ala	Gly	Lys	His
1				5					10					15	
Ile	Leu	Ile	Val	Glu	Asp	Glu	Pro	Val	Phe	Arg	Ser	Leu	Leu	Asp	Ser
			20					25					30		
Trp	Leu	Ser	Ser	Leu	Gly	Ala	Thr	Thr	Ser	Leu	Ala	Glu	Asp	Gly	Val
	35						40					45			
Glu	Ala	Leu	Glu	Lys	Met	Ala	Ser	Met	Ala	Pro	Asp	Leu	Met	Ile	Cys
	50					55					60				
Asp	Leu	Glu	Met	Pro	Arg	Met	Asp	Gly	Leu	Met	Leu	Val	Glu	Asn	Leu
65					70				75						80
Arg	Asn	Glu	Gly	Tyr	Gln	Thr	Pro	Ile	Leu	Val	Ile	Ser	Ala	Thr	Glu
				85					90					95	
Asn	Met	Ala	Asp	Ile	Ala	Lys	Ala	Leu	Arg	Leu	Gly	Val	Gln	Asp	Ile
			100					105					110		
Leu	Leu	Lys	Pro	Val	Lys	Asp	Leu	Asn	Arg	Leu	Arg	Glu	Thr	Val	Leu
		115					120					125			
Ala	Cys	Leu	Tyr	Pro	Asn	Met	Phe	Asn	Ser	Arg	Val	Glu	Glu	Glu	
	130					135					140				
Arg	Leu	Phe	Gln	Asp	Trp	Asp	Ala	Leu	Val	Ser	Asn	Pro	Leu	Ala	Ala
145					150					155					160
Ala	Lys	Leu	Leu	Gln	Glu	Leu	Gln	Pro	Pro	Val	Gln	Gln	Asn	Ile	Ser
				165					170					175	
His	Cys	Arg	Val	Asn	Tyr	Arg	Gln	Leu	Val	Ala	Ala	Asp	Gln	Pro	Gly
			180					185					190		
Leu	Val	Leu	Asp	Ile	Ala	Pro	Leu	Ser	Asp	Ser	Asp	Leu	Ala	Phe	Tyr
		195					200					205			
Cys	Leu	Asp	Val	Thr	Arg	Ala	Gly	Asp	Asn	Gly	Val	Leu	Ala	Ala	Leu
	210					215					220				
Leu	Leu	Arg	Ala	Leu	Phe	Asn	Gly	Leu	Leu	Gln	Glu	Gln	Leu	Ser	His
225					230					235					240
Gln	Gly	Gln	Arg	Leu	Pro	Glu	Leu	Gly	Ser	Leu	Leu	Lys	Gln	Val	Asn
			245						250					255	
Gln	Leu	Phe	Arg	Gln	Ala	Asn	Leu	Pro	Gly	Gln	Phe	Pro	Leu	Leu	Val
			260					265					270		
Gly	Tyr	Tyr	His	Ser	Gly	Leu	Asn	Leu	Ile	Leu	Val	Ser	Ala	Gly	
		275					280				285				
Leu	Asn	Ala	Thr	Leu	Asn	Thr	Gly	Glu	His	His	Ile	Gln	Val	Ser	Asn

290		295		300
Gly Val Pro Leu Gly Thr Leu Gly Asn Thr Tyr Leu Asn Gln Ile Ser				
305		310		315
His Arg Cys Thr Ser Trp Gln Cys Gln Ile Trp Gly Ala Gly Gly Arg				
	325		330	
Leu Arg Leu Met Leu Ser Thr Glu				
	340		345	

<210> 6034

<211> 318

<212> PRT

<213> Enterobacter cloacae

<400> 6034

Ala Gly Ala Leu Thr Leu Cys Arg Glu Ser Arg Gly Ser Lys Thr Gly				
1	5		10	15
Leu Met Arg Lys Val Lys Ile Gly Leu Ala Leu Gly Ser Gly Ala Ala				
	20		25	30
Arg Gly Trp Ser His Ile Gly Val Ile Asn Thr Leu Asn Gln Met Gly				
	35		40	45
Ile Asp Val Asp Ile Val Ala Gly Cys Ser Ile Gly Ser Leu Val Gly				
	50		55	60
Ser Ala Tyr Ala Cys Gly Lys Leu Pro Glu Leu Glu Ser Trp Val Arg				
65	70		75	80
Ser Phe Ser Tyr Trp Asp Val Leu Arg Leu Met Asp Leu Ser Trp Gln				
	85		90	95
Arg Gly Gly Leu Leu Arg Gly Glu Arg Val Phe Asn Gln Phe Arg Lys				
	100		105	110
Ile Met Pro Leu Ala Asp Phe Ser His Cys Gln Met Pro Phe Gly Ala				
	115		120	125
Val Ala Thr Asn Leu Ser Thr Gly Arg Glu Leu Trp Leu Thr Glu Gly				
	130		135	140
Asp Ile His Leu Ala Val Arg Ala Ser Cys Ser Met Pro Gly Leu Met				
145	150		155	160
Ala Pro Val Pro His Asn Gly Tyr Trp Leu Val Asp Gly Gly Val Val				
	165		170	175
Asn Pro Val Pro Val Ser Leu Thr Arg Ala Met Gly Ala Asp Ile Val				
	180		185	190
Ile Ala Val Asp Leu Gln His Asp Ala His Leu Met Gln Gln Asp Leu				
	195		200	205
Met Pro Val Asn Leu Gln Ser Asp Asp Ala Glu Glu Glu Lys Leu Ala				
	210		215	220
Trp His Ala Arg Leu Arg Gly Arg Ile Gly Arg Leu Ala Ala Arg Arg				
225	230		235	240
Ala Val Thr Ala Pro Asn Ala Ile Glu Ile Met Thr Thr Ser Ile Gln				
	245		250	255
Ile Leu Glu Asn Arg Leu Lys Arg Asn Arg Met Ala Gly Asp Pro Pro				
	260		265	270
Asp Ile Leu Ile Gln Pro Tyr Cys Pro Gln Ile Ser Thr Leu Asp Phe				
	275		280	285
His Arg Ala Glu Ala Ala Ile Ala Ala Gly Ser Leu Ala Val Glu Lys				
	290		295	300
Lys Ile Asp Glu Leu Leu Pro Phe Val Arg Thr Ala Arg				
305	310		315	

<210> 6035

<211> 280

<212> PRT

<213> Enterobacter cloacae

<400> 6035

Cys	Cys	Pro	Arg	Ser	Lys	Gln	Ser	Asp	Phe	Ile	Phe	Gln	Ile	Ala	Leu
1				5					10					15	
Pro	Val	Phe	Leu	Leu	Ala	Val	Leu	Leu	Ser	Leu	Gln	Val	Ser	Cys	Val
			20					25					30		
Phe	Val	Leu	Ile	Asp	Arg	Gln	Arg	Val	Leu	Phe	Arg	Pro	Val	Leu	Val
		35					40					45			
Ala	Glu	Thr	Val	Tyr	Ser	Thr	Arg	Tyr	Ser	Met	His	Lys	Ser	Ser	Lys
	50					55					60				
Leu	Glu	Gln	Phe	Arg	Arg	Ile	Ser	Met	Ala	Ala	Leu	Asn	Ser	Lys	Val
65				70					75						80
Arg	Lys	Ala	Val	Ile	Pro	Val	Ala	Gly	Leu	Gly	Thr	Arg	Met	Leu	Pro
				85				90						95	
Ala	Thr	Lys	Ala	Ile	Pro	Lys	Glu	Met	Leu	Pro	Leu	Val	Asp	Lys	Pro
			100					105					110		
Leu	Ile	Gln	Tyr	Val	Val	Asn	Glu	Cys	Ile	Ala	Ala	Gly	Ile	Thr	Glu
		115					120					125			
Ile	Val	Leu	Val	Thr	His	Ser	Ser	Lys	Asn	Ser	Ile	Glu	Asn	His	Phe
	130					135					140				
Asp	Thr	Ser	Phe	Glu	Leu	Glu	Ala	Met	Leu	Glu	Lys	Arg	Val	Lys	Arg
145				150					155						160
Gln	Leu	Leu	Glu	Glu	Val	Gln	Ser	Ile	Cys	Pro	Pro	His	Val	Thr	Ile
			165					170						175	
Met	Gln	Val	Arg	Gln	Gly	Leu	Ala	Lys	Gly	Leu	Gly	His	Ala	Val	Leu
			180					185					190		
Cys	Ala	His	Pro	Val	Val	Gly	Asp	Glu	Pro	Val	Ala	Val	Ile	Leu	Pro
		195					200				205				
Asp	Val	Ile	Leu	Asp	Glu	Tyr	Glu	Ser	Asp	Leu	Ser	Gln	Glu	Asn	Leu
	210					215					220				
Ala	Glu	Met	Ile	Lys	Arg	Phe	Asp	Glu	Thr	Gly	Ser	Ser	Gln	Ile	Met
225				230						235					240
Val	Glu	Pro	Val	Asp	Val	Thr	Ala	Tyr	Gly	Val	Val	Asp	Cys	Lys	
			245					250					255		
Gly	Val	Asp	Leu	Gln	Pro	Gly	Glu	Ser	Val	Pro	Ile	Val	Val	Phe	Thr
			260					265					270		
Thr	Gly	Ala	Asp	Gly	Ala	Gly									
		275					280								

<210> 6036

<211> 297

<212> PRT

<213> Enterobacter cloacae

<400> 6036

Cys	Leu	Thr	Thr	Gln	Thr	Ser	Gln	Ile	His	Lys	Gln	Asp	Phe	Pro	Ala
1				5					10					15	
Met	Gln	Ser	Leu	Gln	Arg	Lys	Val	Leu	Arg	Thr	Ile	Cys	Pro	Asp	Gln
			20					25					30		
Lys	Gly	Leu	Ile	Ala	Arg	Ile	Thr	Asn	Ile	Cys	Tyr	Lys	His	Glu	Leu
		35					40					45			
Asn	Ile	Val	Gln	Asn	Asn	Glu	Phe	Val	Asp	His	Arg	Thr	Gly	Arg	Phe
	50					55					60				
Phe	Met	Arg	Thr	Glu	Leu	Glu	Gly	Ile	Phe	Asn	Asp	Thr	Thr	Leu	Leu
65				70					75						80
Ala	Asp	Leu	Asp	Ser	Ala	Leu	Pro	Glu	Gly	Ser	Val	Arg	Glu	Leu	Asn
				85					90					95	
Pro	Ala	Gly	Arg	Arg	Arg	Ile	Val	Ile	Leu	Val	Thr	Lys	Glu	Ala	His
			100					105					110		
Cys	Leu	Gly	Asp	Leu	Leu	Met	Lys	Ala	Asn	Tyr	Gly	Gly	Leu	Asp	Val
		115					120					125			
Glu	Ile	Ala	Ala	Val	Ile	Gly	Asn	His	Glu	Thr	Leu	Arg	Thr	Leu	Val
	130					135						140			

Glu Arg Phe Asp Ile Pro Phe Glu Leu Val Ser His Glu Gly His Thr
 145 150 155 160
 Arg Glu Glu His Asp Asn Leu Met Ala Ala Ile Glu Ala His Asn
 165 170 175
 Pro Asp Tyr Val Val Leu Ala Lys Tyr Met Arg Val Leu Thr Pro Ser
 180 185 190
 Phe Val Ala Arg Phe Pro Asn Lys Ile Ile Asn Ile His His Ser Phe
 195 200 205
 Leu Pro Ala Phe Ile Gly Ala Arg Pro Tyr His Gln Ala Tyr Glu Arg
 210 215 220
 Gly Val Lys Ile Ile Gly Ala Thr Ala His Tyr Val Asn Asp Asn Leu
 225 230 235 240
 Asp Glu Gly Pro Ile Ile Met Gln Asp Val Ile His Val Asp His Thr
 245 250 255
 Tyr Thr Ala Glu Asp Met Met Arg Ala Gly Arg Asp Val Glu Lys Asn
 260 265 270
 Val Leu Ser Arg Ala Leu Tyr Gln Val Leu Ala Gln Arg Val Phe Val
 275 280 285
 Tyr Gly Asn Arg Thr Ile Ile Leu
 290 295

<210> 6037

<211> 165

<212> PRT

<213> Enterobacter cloacae

<400> 6037

Arg Leu Ile Phe Cys Ser Arg Lys Arg Ile Val Ser Gln Leu Cys Pro
 1 5 10 15
 Cys Gly Ser Ala Leu Glu Tyr Ser Leu Cys Cys Gln Arg Tyr Leu Ser
 20 25 30
 Gly Lys Gln Val Ala Pro Asp Pro Ser His Leu Met Arg Ser Arg Tyr
 35 40 45
 Thr Ala Phe Val Ile Lys Asn Ala Asp Tyr Leu Ile Lys Thr Trp His
 50 55 60
 Pro Ser Cys His Ala Ala Asp Phe Arg Gln Glu Ile Glu Ala Gly Phe
 65 70 75 80
 Ala Asn Thr Val Trp Gln Gly Leu Thr Val Phe Glu Ala Ala Pro Gly
 85 90 95
 Arg Asp Ala Asn Glu Gly Tyr Val Ser Phe Val Ala Arg Phe Ser Glu
 100 105 110
 Gln Asn Lys Pro Gly Ala Ile Ile Glu Arg Ser Arg Phe Leu Lys Asp
 115 120 125
 Ser Gly Gln Trp Tyr Tyr Ile Asp Gly Thr Arg Pro Gln Phe Gly Arg
 130 135 140
 Asn Asp Pro Cys Pro Cys Gly Ser Gly Lys Lys Phe Lys Lys Cys Cys
 145 150 155 160
 Gly Ser Asn Ala
 165

<210> 6038

<211> 74

<212> PRT

<213> Enterobacter cloacae

<400> 6038

Gly Tyr Thr Arg Ala Thr Met Ala His Thr Lys Arg Ser Asp Leu Ala
 1 5 10 15
 Arg Ala Ser Gly Pro His Lys Val Arg Arg Ser Pro Asp Trp Ser Leu
 20 25 30
 Gln Leu Asp Ser Met Lys Ser Glu Ser Leu Val Ile Val Asp Gln Asn

	35		40		45										
Ala	Thr	Val	Asn	Thr	Phe	Pro	Gly	Leu	Val	His	Thr	Ala	Arg	His	Thr
	50					55					60				
Met	Gly	Val	Gly	Cys	Lys	Arg	Ser	Arg							
65					70										

<210> 6039

<211> 63

<212> PRT

<213> Enterobacter cloacae

<400> 6039

Glu	Ser	Gly	Pro	Cys	Leu	Ser	Ser	Ser	Val	Ala	Gly	His	Pro	Leu	Arg
1				5					10					15	
Pro	Ala	Arg	Asp	Arg	Arg	Leu	Gly	Glu	Pro	Leu	Pro	His	Leu	Leu	Ala
			20					25					30		
Asn	Pro	Ile	Trp	Ala	His	Pro	Met	Ala	Arg	Gly	Pro	Lys	Val	Pro	Leu
		35					40					45			
Phe	Gly	Leu	Ala	Thr	Leu	Cys	Gly	Ile	Ser	Tyr	Arg	Phe	Gln		
	50					55					60				

<210> 6040

<211> 215

<212> PRT

<213> Enterobacter cloacae

<400> 6040

Val	Ser	Gln	Gln	Val	Ser	Thr	Val	Leu	Asn	Lys	Leu	Ser	Arg	Leu	Leu
1				5				10						15	
Glu	Gln	Ala	Gly	Ile	Ser	Leu	Thr	Asp	His	Gln	Lys	Asn	Gln	Leu	Val
			20					25					30		
Ala	Tyr	Val	Asp	Met	Leu	Asn	Lys	Trp	Asn	Lys	Ala	Tyr	Asn	Leu	Thr
		35					40					45			
Ser	Val	Arg	Asp	Pro	Asn	Glu	Met	Leu	Ile	Arg	His	Ile	Leu	Asp	Ser
	50				55					60					
Ile	Val	Val	Ala	Pro	Tyr	Leu	Asn	Gly	Glu	Arg	Phe	Ile	Asp	Val	Gly
65					70				75					80	
Thr	Gly	Pro	Gly	Leu	Pro	Gly	Val	Pro	Leu	Ser	Ile	Val	Arg	Pro	Glu
			85					90						95	
Ser	His	Phe	Thr	Leu	Leu	Asp	Ser	Leu	Gly	Lys	Arg	Val	Arg	Phe	Leu
			100					105					110		
Arg	Gln	Val	Gln	His	Glu	Leu	Lys	Leu	Glu	Asn	Ile	Thr	Pro	Val	Gln
		115					120					125			
Ser	Arg	Val	Glu	Glu	Phe	Pro	Ala	Glu	Pro	Pro	Phe	Asp	Gly	Val	Ile
	130					135					140				
Ser	Arg	Ala	Phe	Ala	Ser	Leu	Asn	Asp	Met	Val	Ser	Trp	Cys	Lys	His
145					150				155					160	
Leu	Pro	Ala	Glu	Lys	Gly	Arg	Phe	Tyr	Ala	Leu	Lys	Gly	Gln	Leu	Pro
			165					170					175		
Gly	Asp	Glu	Ile	Glu	Gln	Leu	Pro	Asp	Gly	Phe	Ala	Val	Glu	Ser	Ile
			180					185				190			
Glu	Lys	Leu	Gln	Ile	Pro	Gln	Leu	Glu	Gly	Glu	Arg	His	Leu	Val	Ile
		195				200						205			
Ile	Lys	Pro	Asn	Thr	Phe										
	210					215									

<210> 6041

<211> 137

<212> PRT

<213> Enterobacter cloacae

<400> 6041

Gln Arg Val Lys Gly Ile Met Ala Ser Glu Asn Met Thr Pro Gln Asp
 1 5 10 15
 Tyr Ile Gly His Leu Asn Asn Leu Gln Leu Asp Leu Arg Thr Phe
 20 25 30
 Ser Leu Val Asp Pro His Asn Pro Ala Thr Phe Trp Thr Ile Asn
 35 40 45
 Ile Asp Ser Met Phe Phe Ser Val Val Leu Gly Leu Leu Phe Leu Ala
 50 55 60
 Met Phe Arg Ser Val Ala Lys Lys Ala Thr Ser Gly Val Pro Gly Lys
 65 70 75 80
 Phe Gln Thr Phe Ile Glu Met Ile Ile Gly Phe Val His Gly Ser Val
 85 90 95
 Lys Glu Leu Tyr His Gly Lys Ser Lys Leu Ile Ala Pro Leu Ala Leu
 100 105 110
 Asn Val Phe Val Trp Val Phe Leu Met Thr Leu Met Asp Leu Leu Pro
 115 120 125
 Ile His Phe Leu Pro Trp Asp Arg
 130 135

<210> 6042

<211> 649

<212> PRT

<213> Enterobacter cloacae

<400> 6042

Asn Pro Arg Pro Gly Leu Gln Ser Ile Phe Ile Pro Leu Tyr Ala Arg
 1 5 10 15
 Gln Thr Thr Met Phe Tyr Gln Asp Pro Phe Asp Val Ile Ile Ile Gly
 20 25 30
 Gly Gly His Ala Gly Thr Glu Ala Ala Met Ala Ala Arg Met Gly
 35 40 45
 Gln Gln Thr Leu Leu Leu Thr His Asn Ile Asp Thr Leu Gly Gln Met
 50 55 60
 Ser Cys Asn Pro Ala Ile Gly Gly Ile Gly Lys Gly His Leu Val Lys
 65 70 75 80
 Glu Val Asp Ala Leu Gly Gly Leu Met Ala Lys Ala Ile Asp His Ala
 85 90 95
 Gly Ile Gln Phe Arg Ile Leu Asn Ala Ser Lys Gly Pro Ala Val Arg
 100 105 110
 Ala Thr Arg Ala Gln Ala Asp Arg Val Leu Tyr Arg Gln Ala Val Arg
 115 120 125
 Thr Ala Leu Glu Asn Gln Pro Asn Leu Met Ile Phe Gln Gln Ala Val
 130 135 140
 Glu Asp Leu Ile Val Glu Asn Asp Arg Val Val Gly Ala Val Thr Gln
 145 150 155 160
 Met Gly Leu Lys Phe Arg Ala Lys Ala Val Val Leu Thr Val Gly Thr
 165 170 175
 Phe Leu Asp Gly Lys Ile His Ile Gly Leu Asp Asn Tyr Ser Gly Gly
 180 185 190
 Arg Ala Gly Asp Pro Pro Ser Ile Pro Leu Ser Arg Arg Leu Arg Glu
 195 200 205
 Leu Pro Leu Arg Val Ser Arg Leu Lys Thr Gly Thr Pro Pro Arg Ile
 210 215 220
 Asp Ala Arg Thr Ile Asp Phe Ser Val Leu Ala Gln Gln His Gly Asp
 225 230 235 240
 Asn Pro Met Pro Val Phe Ser Phe Met Gly Asn Ala Ala Gln His Pro
 245 250 255
 Gln Gln Val Pro Cys Tyr Ile Thr His Thr Asn Glu Lys Thr His Asp
 260 265 270
 Val Ile Arg Asn Asn Leu Asp Arg Ser Pro Met Tyr Ala Gly Val Ile


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<210> 6043
<211> 152
<212> PRT
<213> Enterobacter cloacae
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Cys 1	Leu	Thr	Leu	Ser 5	Leu	Lys	Gly	Arg	Phe 10	Ile	Arg	His	Ala 15	Ala	Tyr
Leu	Glu	Gly	Ser 20	Arg	Ser	Lys	Asn 25	Val	Met	Ser	Val	Ser	Leu 30	Leu	Ser
Arg	Asn	Val 35	Ala	Arg	Lys	Leu	Leu 40	Phe	Ile	Gln	Phe	Leu 45	Ala	Val	Ile
Ala	Ser	Gly	Leu	Leu	Phe	Ser	Leu	Lys	Asp	Pro	Phe	Trp	Gly	Ile	Ser

50	55	60
Ala Ala Cys Gly Gly Leu Ala Val Val Leu Pro Asn Val Leu Phe Met		
65	70	75
Ile Phe Ala Trp Arg His Gln Ala His Thr Pro Ala Lys Gly Arg Val		
	85	90
Ala Trp Ser Phe Ala Leu Gly Glu Val Cys Lys Val Leu Leu Thr Phe		
	100	105
Ala Leu Leu Val Met Ala Leu Ala Val Leu Lys Val Val Phe Met Pro		
	115	120
Leu Ile Ala Thr Trp Val Leu Val Leu Val Val Gln Val Leu Ala Pro		
	130	135
Ala Val Ile Asn Asn Lys Gly		140
145	150	

<210> 6044

<211> 256

<212> PRT

<213> Enterobacter cloacae

<400> 6044

Arg Ile Pro Phe Pro Thr Cys Asn Asn Asp Tyr Ser Gly Ser Val Phe		
1	5	10
Ala Glu Pro Val Phe Lys Val Ala Ile Met Leu Asn Ala Ile Leu Leu		
	20	25
Ala Gly Leu Leu Leu Ser Thr Gly His Ser Trp Ala Asn Ile Val Ile		
	35	40
Asn Gly Thr Arg Val Leu Tyr Pro Glu Asn Asn Lys Glu Val Ile Val		
	50	55
Gln Leu Met Asn Thr Gly Asp Ala Pro Ala Leu Val Gln Ser Trp Ile		
65	70	75
Asp Asp Gly Asp Ile Asn Ser Thr Pro Glu Thr Ala Asn Val Pro Phe		
	85	90
Leu Leu Ser Pro Pro Val Ile Lys Val Asn Glu His Asn Gly Gln Gln		
	100	105
Leu Arg Ile Lys Lys Leu Pro Ser Ser Leu Pro Ala Asp Arg Glu Ser		
	115	120
Val Phe Phe Leu Asn Val Leu Asp Ile Pro Pro Arg Pro Glu Asn Leu		
	130	135
Gln Asn Gln Asn Thr Val Gln Leu Ala Ile Lys Ser Arg Ile Lys Leu		
145	150	155
Phe Tyr Arg Pro Ala Ala Leu Lys Gly Thr Leu Asp Asp Ala Val Ala		
	165	170
Lys Leu Thr Leu Ala Ala Glu Gly Asp Arg Phe Arg Ile Thr Asn Asn		
	180	185
Ser Pro Phe His Ile Thr Val Ala Asn Ile Ser Leu Gly Lys Thr Lys		
	195	200
Leu Leu Gln Glu Ser Pro Met Val Ser Pro Phe Gly Gln Leu Thr Val		
	210	215
Ala Ala Lys Asn Thr Val Lys Arg Gly Gln Thr Phe Gln Leu Met Tyr		
225	230	235
Val Asp Asp Leu Gly Ala Tyr Lys Thr Arg Thr Phe Thr Ser Gln		
	245	250
		255

<210> 6045

<211> 836

<212> PRT

<213> Enterobacter cloacae

<400> 6045

Ser Glu Arg Leu Thr Met Lys Met Lys Gln Asn Arg Leu Cys Leu Leu
1
5
10
15

Ala	Val	Cys	Thr	Leu	Leu	Leu	Ser	His	Lys	Ser	Gly	Ala	Val	Ser	Phe
			20					25					30		
Asp	Pro	Ser	Leu	Leu	Ala	Gly	Ala	Ser	Gly	Glu	Ser	Asp	Leu	Ser	Arg
		35					40					45			
Phe	Ser	Glu	Asn	Asn	Ala	Met	Pro	Ala	Gly	Ser	Gln	Glu	Met	Asp	Ile
	50					55					60				
Tyr	Val	Asn	Gly	Ser	Trp	Lys	Gly	Arg	Tyr	Thr	Val	Ile	Tyr	Gly	Glu
65					70					75					80
Gln	Arg	Asp	Asp	Ile	Arg	Ile	Ala	Trp	Lys	Asp	Ala	Arg	Ser	Leu	Gly
				85					90					95	
Ile	Asn	Thr	Thr	Ser	Val	Pro	Ala	Pro	Ala	Ile	Ala	His	Gly	Gln	Val
			100					105					110		
Gln	Leu	Arg	Asp	Leu	Val	Gln	Gly	Gly	Glu	Val	Lys	Thr	Asp	Thr	Ser
		115					120				125				
Thr	Leu	Ser	Leu	Ala	Leu	Thr	Val	Pro	Gln	Ala	Ala	Val	Leu	Arg	Thr
	130					135					140				
Glu	Glu	Gly	Tyr	Ile	Ala	Arg	Gln	Phe	Trp	Asp	Glu	Gly	Ile	Pro	Ala
145					150					155					160
Leu	Met	Leu	Ser	Trp	Asn	Thr	Thr	Trp	Tyr	Asn	Thr	Arg	Ala	Lys	Gly
				165					170					175	
Ala	Ala	Lys	Asp	Thr	Asn	Asp	Asp	Phe	Tyr	Ala	Gly	Leu	Asp	Ser	Gly
			180					185					190		
Ala	Asn	Leu	Phe	Gly	Trp	Gln	Phe	Arg	Asp	Ser	Ser	Ala	Trp	Arg	Lys
		195					200					205			
Thr	Ala	Ser	Gly	Glu	Ser	Ser	Trp	Gln	Asn	Asn	Thr	Arg	Tyr	Leu	Arg
	210					215					220				
Arg	Pro	Leu	Ala	Ser	Leu	Lys	Ser	Asn	Leu	Thr	Leu	Gly	Asp	Phe	Tyr
225					230					235					240
Ile	Pro	Gly	Asp	Leu	Phe	Asp	Ser	Leu	Arg	Val	Arg	Gly	Val	Ser	Leu
				245					250					255	
Ala	Ser	Asp	Met	Lys	Met	Arg	Pro	Asn	Ser	Gln	Gln	Gly	Phe	Ser	Pro
			260					265					270		
Val	Val	His	Gly	Val	Ala	Arg	Thr	Asn	Ala	Leu	Val	Lys	Val	Ile	Gln
		275					280					285			
Asn	Gly	Asn	Val	Ile	Tyr	Gln	Glu	Asn	Val	Pro	Pro	Gly	Gln	Phe	Thr
	290					295					300				
Leu	Asp	Ser	Ile	Gln	Pro	Thr	Gly	Ser	Ala	Gly	Asp	Leu	Leu	Val	Val
305					310					315					320
Val	Arg	Glu	Ala	Asp	Gly	Ser	Gln	Gln	Ser	Phe	Thr	Val	Pro	Phe	Ser
				325					330					335	
Ala	Val	Pro	Gly	Met	Leu	Lys	Glu	Gly	Val	Ser	Gln	Tyr	Ser	Val	Val
			340					345					350		
Ala	Gly	Lys	Val	His	Gln	Asn	Thr	Leu	Asp	Ala	Glu	Pro	Ala	Phe	Met
		355					360					365			
Gln	Ala	Thr	Leu	Arg	Tyr	Gly	Phe	Asn	Asn	Leu	Ile	Thr	Gly	Tyr	Thr
	370					375					380				
Gly	Thr	Ile	Ile	Ser	Asp	Asn	Tyr	Gln	Ala	Gly	Leu	Val	Gly	Thr	Gly
385					390					395					400
Trp	Asn	Leu	Pro	Phe	Gly	Ala	Val	Ser	Phe	Asp	Val	Thr	His	Ala	Lys
				405					410					415	
Thr	Thr	Leu	Gln	Asp	Arg	Thr	Ser	Ser	Gly	Gln	Ser	Tyr	Arg	Val	Ser
			420					425					430		
Tyr	Ser	Lys	Phe	Ile	Asp	Thr	Thr	Ala	Thr	Asn	Phe	Thr	Leu	Ala	Ala
		435						440				445			
Tyr	Arg	Tyr	Ser	Thr	Lys	Gly	Tyr	Tyr	Ser	Phe	Ser	Asp	Ala	Leu	Tyr
	450					455					460				
Ser	Arg	Glu	Gly	Tyr	Gln	Arg	Leu	Arg	Ala	Gln	Tyr	Asp	Asp	Tyr	Glu
465					470					475					480
Asp	Arg	Phe	Gly	Val	Ala	Pro	Asp	Met	Ser	Leu	Ser	Thr	Trp	Asp	Ala
				485					490					495	
Met	Arg	Ala	Ala	Gln	Pro	Lys	Asn	Thr	Phe	Thr	Leu	Asn	Leu	Asn	Gln

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<210> 6046
<211> 360
<212> PRT
<213> Enterobacter cloacae
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<400> 6046															
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Ser	Val	Ser	Gly	Met	Ser	Tyr	Ala	Thr	Cys	Ser	Gly	Ser	Ser	Ile	Val
			20					25					30		
Tyr	Gly	Thr	Pro	Ile	Thr	Ile	Asp	Leu	Ser	Asp	Lys	Leu	Ser	Pro	Ala
		35					40					45			
Thr	Pro	Thr	Trp	Thr	Gly	Ser	Phe	Thr	Thr	Gln	Tyr	Ser	Gly	Ser	Phe
	50					55					60				
Asn	Cys	Thr	Thr	Gly	Asn	Ser	Glu	Phe	Ser	Tyr	Thr	Pro	Ile	Leu	Ser
65					70					75				80	
Thr	Asp	Ser	Lys	Tyr	Ala	Thr	Ile	Leu	Gly	Phe	Ser	Asn	Asn	Lys	Tyr

				85					90				95				
Met	Val	Arg	Ala	Glu	Ile	Thr	Asn	Pro	Pro	Ala	Asn	Lys	Thr	Leu	Ser		
			100					105					110				
Ala	Ser	Gly	Ser	His	Thr	Ala	Ser	Glu	Leu	Asn	Thr	Pro	Phe	Thr	Val		
		115					120					125					
Arg	Phe	Thr	Leu	Val	Asn	Gln	Ser	Gly	Thr	Thr	Leu	Thr	Gly	Asp	Thr		
	130					135					140						
Ala	Asn	Met	Ser	Asp	Val	Leu	Phe	Val	Ser	Asp	Met	Ser	Gly	Leu	Ser		
145				150					155						160		
Ile	Trp	Glu	Ile	Ile	Thr	Trp	Pro	Ile	Asn	Gln	Val	Ile	Lys	Ile	Ala		
			165					170						175			
Gln	Trp	Leu	Phe	Ser	Gly	Phe	Lys	Trp	Pro	Tyr	Asp	Asn	Arg	Asp	Met		
		180						185					190				
Phe	Gly	Gln	Pro	Met	Ile	Ile	Lys	Tyr	Ala	Pro	Lys	Leu	Thr	Thr	Cys		
		195					200					205					
Ser	Phe	Asp	Asn	Ala	Gly	Leu	Thr	Val	Ala	Leu	Pro	Thr	Leu	Gly	Ile		
	210					215					220						
Pro	Gln	Leu	Ser	Ala	Ser	Ser	Gln	Pro	Gly	Leu	Thr	Pro	Phe	Ser	Leu		
225				230						235					240		
Asn	Met	Ser	Cys	Gln	Asn	Val	Gly	Val	Asn	Gly	Asn	Ser	Asp	Arg	Ala		
			245					250						255			
Ile	Glu	Met	Phe	Leu	Ser	Ser	Thr	Gln	Leu	Leu	Ser	Thr	Asp	Ser	Ser		
			260					265					270				
Val	Leu	Ile	Asp	Ser	Ser	Ser	Ser	Ala	Ala	Gln	Gly	Val	Gly	Leu	Arg		
		275					280					285					
Leu	Ile	Lys	Arg	Asp	Ala	Pro	Gln	Thr	Pro	Val	Thr	Phe	Ser	Asn	Ser		
	290					295					300						
Thr	Thr	Ser	Arg	Gly	Asn	Ala	Thr	Met	Ile	Phe	Ser	Val	Ala	Ala	Gly		
305				310						315					320		
Ala	Ala	Leu	Asp	Glu	His	Phe	Thr	Leu	Pro	Met	Ala	Ala	Tyr	Tyr	Tyr		
			325						330					335			
Val	Trp	Ala	Pro	Ala	Gln	Val	Ser	Gln	Gly	Lys	Ile	Asn	Thr	Ser	Ala		
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Thr	Leu	Asn	Ile	Ile	Tyr	Pro											
		355					360										

<210> 6047

<211> 166

<212> PRT

<213> Enterobacter cloacae

<400> 6047

Asp	Leu	Ser	Phe	Asn	Glu	Leu	Asn	Asn	Leu	Leu	Asn	His	Lys	Gly	Met		
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Glu	Arg	Gly	Gly	Pro	His	Arg	Phe	Thr	Ser	Leu	Cys	Lys	Thr	Leu	Asn		
		20						25					30				
Val	Arg	Arg	Val	Leu	Leu	Cys	Pro	Glu	Leu	His	Tyr	Gly	Leu	Leu	Lys		
		35					40					45					
Lys	Val	Leu	Glu	Met	Lys	Phe	Glu	Leu	Thr	Ile	Ser	Gln	Gln	Asp	Glu		
	50					55					60						
Leu	Thr	Glu	Leu	Lys	Lys	Glu	Leu	Pro	Ala	Leu	Leu	Met	Ala	Asp	Gly		
65				70					75					80			
Gln	Lys	Pro	Ser	Ile	Tyr	Ser	Trp	Leu	Arg	Arg	Val	Met	Arg	Ser	Gly		
				85				90					95				
Ser	Arg	Ala	Arg	Ser	Ile	Leu	Ser	Ala	Arg	Glu	Trp	Glu	Val	Leu	His		
		100						105					110				
Leu	Ile	Val	Glu	Gly	Phe	Ser	Thr	Thr	Glu	Ile	Ala	Arg	His	Arg	Asn		
		115					120					125					
Arg	Ser	Val	Ser	Thr	Ile	Ala	Thr	Gln	Lys	His	Asn	Ala	Met	Lys	Lys		
	130					135					140						
Leu	Asn	Leu	Ser	Asn	His	Ser	Glu	Leu	Ile	Lys	Tyr	Val	Gln	Thr	Val		

160

<400> 6048

Asn	Cys	Val	Ala	Ile	Thr	Phe	Pro	Pro	Gly	Trp	Asn	Cys	Ala	Gly	Lys
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			20					25					30		
Val	Pro	Ala	Gly	Lys	Val	Phe	Ala	Asn	Pro	Arg	Asn	Ala	Ala	Ala	Gly
		35					40					45			
Ser	Leu	Arg	Gln	Leu	Asp	Pro	Arg	Ile	Thr	Ala	Lys	Arg	Pro	Leu	Thr
	50					55					60				
Phe	Phe	Cys	Tyr	Gly	Val	Gly	Ile	Leu	Glu	Gly	Gly	Asp	Leu	Pro	Asp
65					70					75					80
Thr	His	Leu	Gly	Arg	Leu	Met	Gln	Phe	Lys	Glu	Trp	Gly	Leu	Pro	Val
				85					90					95	
Ser	Asn	Arg	Val	Gln	Leu	Cys	Asp	Ser	Pro	Glu	Ala	Val	Leu	Ala	Phe
			100					105					110		
Tyr	His	Lys	Val	Glu	Glu	Asp	Arg	Pro	Thr	Leu	Gly	Phe	Asp	Ile	Asp
		115					120					125			
Gly	Val	Val	Ile	Lys	Val	Asn	Ser	Leu	Ala	Leu	Gln	Glu	Gln	Leu	Gly
		130				135					140				
Phe	Val	Ala	Arg	Ala	Pro	Arg	Trp	Ala	Val	Ala	Phe	Lys	Phe	Pro	Ala
145					150					155					160
Gln	Glu	Gln	Met	Thr	Phe	Val	Arg	Asp	Val	Glu	Phe	Gln	Val	Gly	Arg
				165					170					175	
Thr	Gly	Ala	Ile	Thr	Pro	Val	Ala	Arg	Leu	Glu	Pro	Val	Gln	Val	Ala
			180					185					190		
Gly	Val	Leu	Val	Ser	Asn	Ala	Thr	Leu	His	Asn	Ala	Asp	Glu	Ile	Ala
		195					200					205			
Arg	Leu	Gly	Leu	Arg	Ile	Gly	Asp	Lys	Val	Val	Ile	Arg	Arg	Ala	Gly
		210				215					220				
Asp	Val	Ile	Pro	Gln	Val	Val	Asn	Val	Val	Glu	Ser	Glu	Arg	Pro	Ala
225					230					235					240
Asp	Thr	Arg	Ala	Ile	Glu	Phe	Pro	Ala	His	Cys	Pro	Val	Cys	Gly	Ser
				245					250					255	
Asp	Val	Glu	Arg	Val	Glu	Gly	Glu	Ala	Val	Thr	Arg	Cys	Thr	Gly	Gly
			260					265					270		
Leu	Ile	Cys	Gly	Ala	Gln	Arg	Lys	Glu	Ser	Leu	Lys	His	Phe	Val	Ser
		275					280					285			
Arg	Arg	Ala	Met	Asp	Val	Asp	Gly	Met	Gly	Asp	Lys	Ile	Ile	Asp	Gln
		290				295					300				
Leu	Val	Glu	Lys	Glu	Tyr	Val	His	Thr	Pro	Ala	Asp	Leu	Phe	Thr	Leu
305					310					315					320
Thr	Ala	Gly	Lys	Leu	Thr	Gly	Leu	Asp	Arg	Met	Gly	Pro	Lys	Ser	Ala
				325					330					335	
Gln	Asn	Ile	Val	Asn	Ala	Leu	Glu	Ala	Ala	Lys	Asn	Thr	Thr	Phe	Ala
			340					345					350		
Arg	Phe	Leu	Tyr	Ala	Leu										

405 410 415
 Gly Lys Leu Leu Glu Gln Gly Ile His Trp Pro Ala Pro Val Val Val
 420 425 430
 Asn Ala Glu Glu Ile Asp Ser Pro Phe Ala Gly Lys Thr Val Val Leu
 435 440 445
 Thr Gly Ser Leu Ser Gln Leu Ser Arg Asp Asp Ala Lys Ala Arg Leu
 450 455 460
 Val Ala Leu Gly Ala Lys Val Ala Gly Ser Val Ser Lys Lys Thr Asp
 465 470 475 480
 Leu Val Ile Ala Gly Glu Ala Ala Gly Ser Lys Leu Ala Lys Ala Gln
 485 490 495
 Glu Leu Gly Ile Glu Ile Ile Asp Glu Ala Glu Met Met Arg Leu Leu
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 Gly Glu
 515

<210> 6049

<211> 201

<212> PRT

<213> Enterobacter cloacae

<400> 6049

Trp Cys Asp Met Asp Ser Ile Glu Gln Gln Leu Thr Glu Leu Arg Thr
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 Thr Leu Arg His His Glu Tyr Leu Tyr His Val Met Asp Ala Pro Glu
 20 25 30
 Val Pro Asp Ala Glu Tyr Asp Arg Leu Met Arg Glu Leu Arg Glu Leu
 35 40 45
 Glu Ala Gln His Pro Glu Leu Ile Thr Pro Asp Ser Pro Thr Gln Arg
 50 55 60
 Val Gly Ala Glu Pro Leu Gly Ala Phe Ser Gln Val Arg His Glu Val
 65 70 75 80
 Pro Met Leu Ser Leu Asp Asn Val Phe Asp Glu Glu Ser Phe Leu Ala
 85 90 95
 Phe Asn Lys Arg Val Gln Asp Arg Leu Lys Ser Val Asp Asn Leu Ser
 100 105 110
 Trp Cys Cys Glu Leu Lys Leu Asp Gly Leu Ala Val Ser Ile Leu Tyr
 115 120 125
 Glu Asn Gly Val Met Val Arg Ala Ala Thr Arg Gly Asp Gly Thr Thr
 130 135 140
 Gly Glu Asp Ile Thr Thr Asn Val Arg Thr Ile Arg Ala Ile Pro Leu
 145 150 155 160
 Lys Leu Arg Gly Asp Asn Ile Pro Ala Arg Leu Glu Leu Arg Gly Glu
 165 170 175
 Val Phe Leu Pro Gln Ala Gly Phe Glu Lys Ile Asn Glu Glu Ala Arg
 180 185 190
 Arg Thr Gly Gly Glu Ser Val Cys
 195 200

<210> 6050

<211> 317

<212> PRT

<213> Enterobacter cloacae

<400> 6050

Ile Lys Gln Met Asn Tyr Ser Leu Arg Gln Leu Arg Val Phe Val Thr
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 Val Ala Gln Ala Arg Ser Phe Ser Arg Ala Gly Glu Ile Ile Gly Leu
 20 25 30
 Ser Gln Ser Ala Val Ser His Ser Val Lys Glu Leu Glu Thr Gln Thr
 35 40 45

Gly	Val	Lys	Leu	Leu	Asp	Arg	Thr	Thr	Arg	Glu	Val	Val	Leu	Thr	Glu
50						55				60					
Ala	Gly	Gln	Gln	Leu	Ala	Met	Arg	Leu	Glu	Arg	Leu	Leu	Asp	Glu	Leu
65					70				75						80
Asn	Ser	Thr	Leu	Arg	Asp	Val	Gly	Arg	Leu	Gly	Gln	Gln	Leu	Ser	Gly
			85						90					95	
Thr	Val	Arg	Val	Ala	Ala	Ser	Gln	Thr	Ile	Ser	Ala	His	Leu	Ile	Pro
			100					105					110		
Gln	Cys	Ile	Ala	Glu	Ser	Asn	His	Arg	Tyr	Pro	Asp	Ile	Asp	Phe	Val
		115					120					125			
Leu	His	Asp	Arg	Pro	Gln	Gln	Trp	Val	Leu	Glu	Ser	Ile	Arg	Gln	Gly
		130				135					140				
Asp	Val	Asp	Phe	Gly	Ile	Val	Ile	Asp	Pro	Gly	Ala	Val	Ser	Asp	Leu
145					150					155					160
Glu	Cys	Glu	Val	Val	Leu	Ser	Glu	Pro	Phe	Leu	Leu	Leu	Cys	Arg	Asp
			165						170					175	
Asp	Asp	Pro	Leu	Ala	Ser	Leu	Pro	Gln	Val	Ala	Trp	Gln	Ala	Leu	Gln
			180					185					190		
Gly	Ala	Asn	Leu	Val	Leu	Gln	Asp	Tyr	Ala	Ser	Gly	Ser	Arg	Pro	Leu
		195					200					205			
Ile	Asp	Ala	Ala	Leu	Thr	Ala	Gln	Gly	Val	Lys	Ala	Thr	Ile	Val	Gln
		210				215					220				
Glu	Ile	Gly	His	Pro	Ala	Thr	Leu	Phe	Pro	Met	Val	Glu	Ala	Gly	Ile
225					230					235					240
Gly	Ile	Ser	Val	Leu	Pro	Ala	Leu	Ala	Leu	Pro	Leu	Pro	Gln	Gly	Ser
			245						250					255	
Arg	Leu	Thr	Val	Lys	Arg	Phe	Val	Pro	Cys	Val	Glu	Arg	Gln	Leu	Met
			260					265					270		
Leu	Val	Arg	Arg	Lys	Asn	Arg	Ser	Leu	Ser	Gly	Ala	Ala	His	Ala	Cys
		275					280					285			
Trp	Asp	Val	Val	Arg	Met	Gln	Ala	Glu	Arg	Leu	Met	Glu	Ala	Arg	Thr
		290			295						300				
Arg	Asp	Pro	Leu	Phe	Asn	Glu	Thr	Asn	Asn	Gln	Thr				
305					310					315					

<210> 6051

<211> 340

<212> PRT

<213> Enterobacter cloacae

<400> 6051

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			20					25					30		
Pro	Ala	Arg	Gly	Ser	Phe	Val	Pro	Val	Ile	Glu	Gly	Leu	Thr	Thr	Ala
		35					40				45				
Ala	Ile	Ala	Leu	Leu	Phe	Phe	Met	His	Gly	Ala	Lys	Leu	Ser	Arg	Glu
		50				55					60				
Ala	Ile	Ile	Ala	Gly	Gly	Ser	His	Trp	Arg	Leu	His	Leu	Trp	Val	Met
65				70						75					80
Cys	Ser	Thr	Phe	Ile	Leu	Phe	Pro	Val	Leu	Gly	Val	Leu	Phe	Ala	Trp
			85						90					95	
Trp	Ala	Pro	Val	Asn	Val	Asp	Pro	Ala	Leu	Tyr	Thr	Gly	Phe	Leu	Tyr
		100					105					110			
Leu	Cys	Ile	Leu	Pro	Ala	Thr	Val	Gln	Ser	Ala	Ile	Ala	Phe	Thr	Ser
		115					120					125			
Leu	Ala	Gly	Gly	Asn	Val	Ala	Ala	Ala	Val	Cys	Ser	Ala	Ser	Ala	Ser
		130				135					140				
Ser	Leu	Leu	Gly	Ile	Phe	Val	Ser	Pro	Leu	Leu	Val	Gly	Leu	Leu	Met
145					150					155					160

Asn	Met	His	Gly	Ala	Glu	Gly	Asn	Leu	Glu	Gln	Val	Gly	Lys	Ile	Cys
				165					170					175	
Leu	Gln	Leu	Leu	Leu	Pro	Phe	Val	Leu	Gly	His	Leu	Ser	Arg	Pro	Trp
				180				185					190		
Ile	Gly	Glu	Phe	Val	Ala	Lys	His	Lys	Lys	Trp	Ile	Gly	Lys	Thr	Asp
		195					200					205			
Gln	Ser	Ser	Ile	Leu	Leu	Val	Val	Tyr	Thr	Ala	Phe	Ser	Glu	Ala	Val
	210					215					220				
Val	Asn	Gly	Ile	Trp	His	Arg	Val	Gly	Ala	Gly	Ser	Leu	Leu	Phe	Ile
225					230					235					240
Val	Val	Val	Ser	Ile	Val	Leu	Leu	Ala	Ile	Val	Ile	Ala	Val	Asn	Val
				245					250					255	
Phe	Val	Ala	Arg	Lys	Cys	Gly	Phe	Asn	Lys	Ala	Asp	Glu	Ile	Thr	Ile
			260					265					270		
Val	Phe	Cys	Gly	Ser	Lys	Lys	Ser	Leu	Ala	Asn	Gly	Ile	Pro	Met	Ala
		275					280					285			
Asn	Ile	Leu	Phe	Pro	Thr	Ser	Val	Ile	Gly	Met	Met	Val	Leu	Pro	Leu
	290					295					300				
Met	Ile	Phe	His	Gln	Ile	Gln	Leu	Met	Val	Cys	Ala	Val	Leu	Ala	Arg
305					310					315					320
Arg	Tyr	Lys	Ala	Gln	Thr	Glu	Lys	Leu	Ala	Gln	Glu	Glu	Thr	His	Ala
				325					330					335	
Ala	Lys	Val													

340

<210> 6052

<211> 529

<212> PRT

<213> Enterobacter cloacae

<400> 6052

Leu	Ser	Ser	Gly	Ile	Ser	Gly	Ile	Thr	Thr	Ser	Met	Leu	Thr	Arg	Tyr
1				5					10					15	
Phe	Ser	Ser	Asn	Arg	Lys	Ile	Leu	Phe	Ile	Ser	Phe	Leu	Thr	Gly	Leu
			20					25					30		
Phe	Thr	Ala	Leu	Leu	Leu	Gly	Ala	Leu	Gln	Phe	Tyr	Trp	Ser	Tyr	His
		35				40						45			
Lys	Arg	Asp	Val	Arg	Phe	Asp	Thr	Leu	Ile	Thr	Asp	Leu	Ser	Val	Tyr
	50					55					60				
Met	Glu	Ser	Tyr	Phe	Asp	Glu	Leu	Lys	Met	Ser	Ile	Asp	Thr	Leu	Gln
65					70					75					80
Pro	Leu	Thr	Leu	Asn	Ser	Cys	Glu	Glu	Val	Ser	Ala	Ala	Leu	Thr	Ser
				85					90					95	
Arg	Ala	Ala	Phe	Ser	Ile	Asn	Val	Arg	Ala	Phe	Leu	Leu	Val	Arg	Asp
			100					105					110		
Lys	Gln	Ala	Phe	Cys	Ser	Ser	Ala	Thr	Gly	Pro	Met	Asn	Thr	Pro	Met
		115					120					125			
Glu	Lys	Leu	Ile	Pro	Gln	Leu	His	Ile	Ser	Lys	Pro	Val	Asp	Ile	Ala
	130					135					140				
Leu	Leu	Pro	Gly	Thr	Pro	Met	Leu	Pro	Asp	Lys	Pro	Ala	Ile	Ala	Ile
145					150					155					160
Trp	Tyr	Arg	Asn	Pro	Leu	Val	Lys	Asp	Gly	Gly	Val	Phe	Thr	Ser	Val
			165						170					175	
Asn	Leu	Asn	Leu	Ser	Pro	Tyr	Leu	Leu	Tyr	Thr	Ser	Arg	Gln	Asp	Glu
		180					185						190		
Phe	Ala	Gly	Ile	Ser	Ile	Val	Ile	Gly	Asp	Ser	Ala	Leu	Ser	Thr	Gln
		195					200					205			
Ser	Gly	Met	Leu	Ile	Gln	Ala	Arg	Asp	Leu	Pro	Asp	Val	Pro	Ala	Arg
	210				215						220				
Ser	Ala	Thr	Leu	Lys	Asn	Ile	Pro	Leu	Thr	Val	Asn	Val	Tyr	Ala	Gln
225					230					235					240

Ala	Trp	Thr	Thr	Asp	Glu	Leu	Leu	Tyr	Ala	Val	Phe	Phe	Gly	Leu	Val
				245					250					255	
Cys	Gly	Ile	Ala	Ala	Gly	Leu	Leu	Asn	Phe	Tyr	Ile	Leu	Thr	Ile	Arg
			260					265					270		
Leu	Asn	Pro	Gly	Lys	Glu	Ile	Leu	Thr	Ala	Ile	Lys	His	Asp	Gln	Phe
		275					280					285			
Tyr	Val	Val	Tyr	Gln	Pro	Val	Val	Asp	Ala	Gln	Ser	Leu	Arg	Met	Thr
	290					295					300				
Gly	Leu	Glu	Val	Leu	Met	Arg	Trp	Lys	His	Pro	Val	Met	Gly	Glu	Ile
305					310					315				320	
Pro	Pro	Asp	Ala	Phe	Ile	Asn	Phe	Ala	Glu	Ala	Gln	Lys	Leu	Ile	Val
			325					330						335	
Pro	Leu	Thr	Leu	His	Leu	Phe	Asp	Leu	Ile	Ile	Arg	Asp	Ala	Pro	Val
			340					345					350		
Leu	Gln	Thr	Val	Leu	Pro	Pro	Gly	Ala	Lys	Phe	Gly	Ile	Asn	Ile	Ala
		355					360					365			
Pro	Gly	His	Leu	His	Ala	Glu	Ser	Phe	Lys	Glu	Asp	Met	Arg	Ala	Phe
	370					375					380				
Leu	Ala	Ala	Leu	Pro	Pro	Asp	His	Phe	Gln	Ile	Val	Leu	Glu	Ile	Thr
385					390					395				400	
Glu	Arg	Asp	Met	Ile	Asn	His	Arg	Glu	Ala	Asn	Gln	Leu	Phe	Glu	Trp
			405					410						415	
Val	His	Asn	Glu	Gly	Phe	Glu	Ile	Thr	Ile	Asp	Asp	Phe	Gly	Thr	Gly
			420					425					430		
His	Ser	Ala	Leu	Ile	Tyr	Leu	Glu	Arg	Phe	Thr	Met	Asp	Tyr	Leu	Lys
		435				440						445			
Ile	Asp	Arg	Gly	Phe	Val	Asn	Ala	Ile	Gly	Thr	Glu	Thr	Val	Thr	Ser
	450					455					460				
Pro	Val	Leu	Asp	Ala	Val	Leu	Thr	Leu	Ala	Glu	Arg	Leu	Asn	Met	Ile
465					470					475				480	
Thr	Val	Ala	Glu	Gly	Val	Glu	Thr	Pro	Glu	Gln	Ala	Ala	Trp	Leu	Arg
				485					490					495	
Glu	His	Gly	Val	Asn	Tyr	Leu	Gln	Gly	Tyr	Trp	Ile	Gly	Arg	Pro	Met
			500					505					510		
Pro	Leu	Glu	Gln	Phe	Arg	Thr	Trp	Gln	Pro	Asp	Ile	Thr	Leu	Gly	Glu
		515					520					525			

<210> 6053

<211> 627

<212> PRT

<213> Enterobacter cloacae

<400> 6053

Phe	His	Asn	His	Gly	Ala	Val	Pro	Tyr	Tyr	Ser	Val	Gln	Pro	Ser	Leu
1				5					10					15	
Ser	Val	Asn	Lys	Gly	Ile	Arg	Arg	Thr	Met	Ile	Met	Arg	Val	Val	Leu
		20					25						30		
Thr	Leu	Leu	Ala	Leu	Val	Ser	Leu	Ser	Ser	Gln	Ala	Gln	Thr	Ile	Lys
		35					40					45			
Glu	Ser	Thr	Ala	Phe	Ala	Val	Ile	Gly	Glu	Pro	Lys	Tyr	Ala	Val	Asn
	50					55					60				
Phe	Asn	His	Tyr	Asp	Tyr	Val	Asn	Pro	Ala	Ala	Pro	Lys	Gly	Gly	Asn
65				70					75					80	
Val	Thr	Leu	Ser	Ala	Thr	Gly	Thr	Phe	Asp	Asn	Phe	Asn	Arg	Phe	Ala
			85					90					95		
Leu	Arg	Gly	Val	Ala	Ala	Ala	Arg	Thr	Glu	Ser	Leu	Tyr	Asp	Thr	Leu
			100				105						110		
Phe	Val	Thr	Ser	Asp	Asp	Glu	Pro	Gly	Ser	Tyr	Tyr	Pro	Leu	Val	Ala
		115					120					125			

Glu	Asn	Val	Arg	Tyr	Ala	Glu	Asp	Phe	Ser	Trp	Val	Glu	Ile	Ala	Ile
	130					135					140				
Asn	Pro	Arg	Ala	Arg	Phe	His	Asp	Gly	Thr	Pro	Val	Ser	Ala	Arg	Asp
145					150					155					160
Val	Ala	Phe	Thr	Phe	His	Lys	Phe	Met	Thr	Glu	Gly	Val	Pro	Gln	Phe
				165					170					175	
Arg	Leu	Val	Tyr	Lys	Gly	Thr	Thr	Val	Lys	Ala	Ile	Ala	Pro	Leu	Thr
			180					185						190	
Val	Arg	Ile	Glu	Leu	Pro	Glu	Ala	Asn	Lys	Glu	Asn	Met	Leu	Ser	Leu
			195				200					205			
Phe	Ser	Leu	Pro	Val	Met	Pro	Glu	Ser	Phe	Trp	Lys	Asn	His	Lys	Leu
	210					215					220				
Ser	Asp	Pro	Leu	Ser	Thr	Pro	Pro	Leu	Ala	Gly	Gly	Pro	Tyr	Arg	Ile
225					230					235					240
Thr	Asp	Trp	Arg	Met	Gly	Gln	Tyr	Val	Ile	Tyr	Ser	Arg	Val	Lys	Asp
				245					250					255	
Tyr	Trp	Ala	Ala	Thr	Leu	Pro	Val	Asn	Arg	Gly	Arg	Trp	Asn	Phe	Asp
			260					265						270	
Thr	Ile	Arg	Tyr	Asp	Tyr	Tyr	Leu	Asp	Asp	Asn	Val	Ala	Phe	Glu	Ala
			275				280						285		
Phe	Lys	Ala	Gly	Ala	Phe	Asp	Leu	Arg	Val	Glu	Asn	Ser	Ala	Lys	Asn
	290					295					300				
Trp	Ala	Thr	Arg	Tyr	Ile	Gly	Lys	Asn	Phe	Ala	Lys	Gly	Tyr	Ile	Val
305					310					315					320
Lys	Asp	Glu	His	Lys	Asn	Glu	Ser	Ala	Gln	Asp	Thr	Arg	Trp	Leu	Ala
				325					330					335	
Phe	Asn	Ile	Gln	Arg	Pro	Val	Phe	Ser	Asp	Arg	Arg	Val	Arg	Glu	Ala
			340					345						350	
Ile	Thr	Leu	Ala	Phe	Asp	Phe	Glu	Trp	Met	Asn	Lys	Ala	Leu	Phe	Tyr
		355					360					365			
Gly	Ala	Tyr	Ser	Arg	Ala	Asn	Ser	Tyr	Phe	Gln	Asn	Thr	Glu	Tyr	Ala
	370					375					380				
Ala	Arg	Asp	Tyr	Pro	His	Ala	Asp	Glu	Leu	Val	Leu	Leu	Ala	Pro	Leu
385					390					395					400
Lys	Ala	Glu	Leu	Pro	Pro	Glu	Val	Phe	Thr	Arg	Ile	Phe	Glu	Pro	Pro
				405					410					415	
Lys	Ser	Asp	Gly	Asn	Gly	Phe	Asp	Arg	Asp	Asn	Leu	Leu	Lys	Ala	Ser
		420					425						430		
Ser	Leu	Leu	Asp	Asp	Ala	Gly	Trp	Val	Leu	Lys	Asn	Arg	Gln	Arg	Val
		435					440					445			
Asn	Ala	Gln	Thr	Gly	Lys	Pro	Leu	Ser	Phe	Glu	Leu	Leu	Ile	Ala	Ser
	450					455					460				
Gly	Ala	Asn	Asp	Gln	Trp	Val	Leu	Pro	Phe	Lys	Lys	Asn	Leu	Ala	Arg
465					470					475					480
Leu	Gly	Val	Thr	Met	Asn	Ile	Arg	Gln	Val	Asp	Met	Ala	Gln	Leu	Thr
				485					490					495	
Asn	Arg	Lys	Arg	Ser	Arg	Asp	Tyr	Asp	Met	Met	Gln	Thr	Leu	Trp	Ala
		500					505						510		
Ala	Gln	Pro	Trp	Pro	Ser	Ser	Asp	Leu	Gln	Ile	Ser	Trp	Ala	Ser	Gly
		515					520					525			
Tyr	Ile	Asp	Ser	Ser	Tyr	Asn	Ala	Pro	Gly	Val	Lys	Ser	Pro	Val	Ile
	530					535					540				
Asp	Ala	Leu	Ile	Ala	Lys	Ile	Val	Ala	Ala	Gln	Gly	Asp	Lys	Asn	Lys
545					550					555					560
Leu	Leu	Pro	Leu	Gly	Arg	Ala	Leu	Asp	Arg	Val	Leu	Thr	Trp	Asn	Tyr
				565					570					575	
Tyr	Met	Leu	Pro	Met	Trp	Tyr	Met	Gly	Glu	Asp	Arg	Val	Ala	Arg	Trp
		580						585					590		
Asp	Lys	Phe	Ser	Leu	Pro	Ala	Val	Arg	Pro	Val	Tyr	Thr	Leu	Gly	Phe
		595					600					605			
Asp	Thr	Trp	Trp	Tyr	Asp	Val	Asn	Lys	Ala	Val	Lys	Leu	Pro	Ala	Glu

610
Arg Arg
625

615

620

<210> 6054
<211> 278
<212> PRT
<213> Enterobacter cloacae

<400> 6054

Gly	Val	Thr	Met	Gly	Ala	Tyr	Leu	Ile	Arg	Arg	Leu	Leu	Leu	Val	Ile
1				5					10					15	
Pro	Thr	Leu	Trp	Ala	Ile	Ile	Thr	Ile	Asn	Phe	Phe	Ile	Val	Gln	Ile
			20					25					30		
Ala	Pro	Gly	Gly	Pro	Val	Asp	Gln	Ala	Ile	Ala	Ala	Ile	Glu	Phe	Gly
		35					40					45			
His	Ala	Gly	Gly	Met	Pro	Gly	Gly	Gly	Gly	Glu	Gly	Met	Gly	Ala	Ser
	50					55					60				
His	Ala	Arg	Thr	Gly	Val	Gly	Asn	Ile	Ser	Glu	Ser	His	Tyr	Arg	Gly
65				70						75				80	
Gly	Arg	Gly	Leu	Asp	Pro	Glu	Val	Ile	Ala	Glu	Ile	Thr	His	Arg	Tyr
				85					90					95	
Gly	Phe	Asp	Lys	Pro	Leu	His	Glu	Arg	Tyr	Cys	Arg	Met	Leu	Trp	Asp
			100					105					110		
Tyr	Val	Arg	Phe	Asp	Phe	Gly	Asp	Ser	Leu	Phe	Arg	Ser	Ala	Ser	Val
		115					120					125			
Leu	Thr	Leu	Ile	Lys	Gln	Ser	Leu	Pro	Val	Ser	Ile	Thr	Leu	Gly	Leu
	130					135						140			
Trp	Gly	Thr	Leu	Ile	Ile	Tyr	Leu	Val	Ser	Ile	Pro	Leu	Gly	Ile	Arg
145				150						155					160
Lys	Ala	Val	Tyr	Asn	Gly	Ser	Arg	Phe	Asp	Ile	Trp	Ser	Ser	Thr	Phe
				165					170					175	
Ile	Ile	Ile	Gly	Tyr	Ala	Ile	Pro	Ala	Phe	Leu	Phe	Ala	Val	Leu	Leu
			180					185					190		
Ile	Val	Phe	Phe	Ala	Gly	Gly	Ser	Tyr	Phe	Asp	Leu	Phe	Pro	Leu	Arg
		195					200					205			
Gly	Leu	Val	Ser	Ala	Asp	Phe	Ser	Thr	Leu	Pro	Trp	Tyr	Gln	Lys	Ile
	210				215						220				
Thr	Asp	Tyr	Phe	Trp	His	Ile	Thr	Leu	Pro	Val	Leu	Ala	Thr	Val	Ile
225				230						235					240
Gly	Gly	Phe	Ala	Ala	Leu	Thr	Met	Leu	Thr	Lys	Asn	Ala	Phe	Leu	Asp
				245					250					255	
Glu	Ile	Arg	Lys	Gln	Tyr	Val	Val	Thr	Ala	Arg	Ala	Lys	Gly	Val	Gly
			260					265					270		
Glu	Lys	Gln	Ile	Gly											
		275													

<210> 6055
<211> 98
<212> PRT
<213> Enterobacter cloacae

<400> 6055

His	Ile	Cys	Gly	Ser	Ala	Pro	Leu	Ser	Lys	Arg	Arg	Gly	Pro	Ser	Gly
1				5					10					15	
Leu	Asn	Leu	Pro	Arg	Ser	Thr	Tyr	Glu	Gln	Gln	Glu	Met	Gly	Lys	Ser
			20					25					30		
Ile	Ser	Arg	Thr	Lys	Leu	Arg	Thr	Gly	Asp	Leu	Val	Leu	Phe	Arg	Ala
		35					40					45			
Gly	Ser	Thr	Gly	Arg	His	Val	Gly	Ile	Tyr	Ile	Gly	Asn	Asp	Gln	Phe
	50					55					60				

Val His Ala Ser Thr Ser Ser Gly Val Thr Ile Ser Ser Met Asn Glu
 65 70 75 80
 Pro Tyr Trp Lys Lys Arg Tyr Asn Glu Ala Arg Arg Val Leu Ser Arg
 85 90 95
 Ser

<210> 6056

<211> 504

<212> PRT

<213> Enterobacter cloacae

<400> 6056

Pro Gly Arg Thr Ser Thr Ile Met Glu Leu Asn Val Pro Gln Val Ala
 1 5 10 15
 Ala Cys Ile Ile Asn Ser Gln Asp Trp Asp Val Met Lys Lys Gly Leu
 20 25 30
 Ser Val Trp Pro Ala Leu Ser Thr Val Ala Tyr Gly Val Phe Ser Ala
 35 40 45
 Leu Phe Tyr Ala Phe Gly Val His Ala Asp Asp Ile Gln Phe Asp
 50 55 60
 Ser Asn Phe Leu Arg Ile Ser His Pro Glu Asn Val Asp Leu Ser Ala
 65 70 75 80
 Tyr Met Asn Asn Ala Leu Pro Ala Gly Arg Tyr Arg Ala Asp Ile Tyr
 85 90 95
 Leu Asn Asp Lys Leu Val Met Ile Asp Asp Ile Arg Ile Ser Gly Lys
 100 105 110
 Asp Ala Arg Ser Gln Arg Ile Leu Leu Ser Gln Ala Thr Val Thr Gly
 115 120 125
 Leu Gln Leu Lys Lys Ser Arg Leu Cys Ala Thr Asn Ala Gly Gln Trp
 130 135 140
 Cys Asp Leu Gln Ala Val Leu Pro Glu Ser Arg Leu Lys Phe Asn Gly
 145 150 155 160
 Gly Arg Gln Arg Leu Asp Val Ser Ile Pro Gln Ala Met Leu Gln His
 165 170 175
 Val Ala Arg Gly Ser Val Asn Pro Val Leu Trp Asp Ala Gly Ile Pro
 180 185 190
 Ala Leu Met Leu Gly Tyr Asn Val Asn Gly Tyr Arg Ser Glu Asn Ser
 195 200 205
 Ser Gly Glu Tyr Asn Asn Leu Tyr Ala Ala Leu Asn Gly Gly Leu Asn
 210 215 220
 Ile Gly Ala Trp Tyr Phe Arg His Asn Gly Thr Leu Ser Trp Gln Gln
 225 230 235 240
 Gln Asn Gly Thr Gln Gln Lys Lys Tyr Thr Val Leu Asn Ser Tyr Val
 245 250 255
 Gln His Pro Leu Ala Gly Ile Glu Gly Asn Leu Ile Leu Gly Glu Ser
 260 265 270
 Asn Thr Ser Gly Gln Leu Phe Asp Ser Val Ser Phe Thr Gly Ala Ser
 275 280 285
 Val Ala Ser Asp Asp Arg Met Leu Pro Ala Ser Arg Arg Gly Tyr Ala
 290 295 300
 Pro Glu Ile Arg Gly Val Ala Gln Thr Asn Ala Lys Val Thr Ile Arg
 305 310 315 320
 Gln Asn Gly Lys Val Ile Tyr Glu Thr Thr Val Ser Pro Gly Ala Phe
 325 330 335
 Val Ile Asn Asp Leu Tyr Pro Ser Gly Tyr Gly Gly Asp Leu Asn Val
 340 345 350
 Thr Val Arg Glu Ala Asp Gly Ser Gln His Phe Phe Asp Val Pro Tyr
 355 360 365
 Ala Ser Val Ala Gln Leu Leu Arg Pro Gly Ala Ser Arg Tyr Ser Ala
 370 375 380

Thr Ala Gly Arg Leu Arg Gly Asp Tyr Leu Ser Glu Arg Pro Ala Phe
 385 390 395 400
 Ser Glu Val Thr Tyr Gln Arg Gly Leu Thr Asn Ser Leu Thr Gly Ser
 405 410 415
 Gly Gly Ile Gln Ala Thr Ser Phe Tyr Gln Ala Met His Ala Gly Leu
 420 425 430
 Ala Val Gly Thr Ala Val Gly Thr Val Ser Leu Asp Thr Thr Trp Ser
 435 440 445
 Gln Thr Gln Val Arg Glu Lys Thr Thr Arg Gly Arg Lys His Gln Val
 450 455 460
 Glu Leu Gln Gln Ile Tyr Ser Arg Lys Pro Asp Ala Val Phe Thr Gly
 465 470 475 480
 His Leu Ala Ile Phe Asp Gly Glu Leu Ser Phe Ser Asp Gly Cys His
 485 490 495
 Pro Val Thr Ser Ala Ala Ala
 500

<210> 6057

<211> 200

<212> PRT

<213> Enterobacter cloacae

<400> 6057

Leu Ile Arg Arg Asn Asn Val Arg Lys Leu Met Lys Val Leu Val Cys
 1 5 10 15
 Val Phe Thr Asp Asn Glu Phe Phe Phe Ser Ala Met Met Glu Leu Leu
 20 25 30
 Ser Ser His Thr Leu Leu Ala Glu Lys Tyr Thr Leu Cys Lys Ile Arg
 35 40 45
 Ser Asp Glu Ile Gly Ala Trp Met His Thr Ala Asp Asn Asn Met Met
 50 55 60
 Ile Met Ala Gly Pro Asp Met Glu Ser Leu Val Arg Phe Phe Cys Leu
 65 70 75 80
 Glu Lys Arg Trp Asp Tyr Leu Thr Thr Arg Phe Ser Ala Ser Glu Met
 85 90 95
 Gln Asp Phe Leu Ala Gln Lys Ile Asn Arg Gln His Glu Val Lys Lys
 100 105 110
 Asn Leu Ile Arg Thr Arg Thr His Leu Lys Leu Ser Lys Gln Glu Leu
 115 120 125
 Asn Val Leu Ser Trp Phe Met His Gly Leu Ser Pro Tyr Ser Met Ser
 130 135 140
 Arg Tyr Tyr Gly Leu Ser Val Lys Thr Ile Ser Thr Phe Lys Arg Arg
 145 150 155 160
 Leu Met Asp Lys Leu Tyr Ile Lys Ser Asp Ala Glu Leu Phe Arg Val
 165 170 175
 Gly Trp Thr Tyr Lys Met Tyr Gln Asn Ser Gly His Leu Arg Gly Arg
 180 185 190
 Asp Glu Asn Phe Arg Met Asp
 195 200

<210> 6058

<211> 403

<212> PRT

<213> Enterobacter cloacae

<400> 6058

Glu Lys Lys Gln Pro Gly Gly Glu Ser Ile Arg Leu Ser Tyr Ser Lys
 1 5 10 15
 Tyr Ile Pro Ala Ser Arg Thr Gln Phe Ser Leu Ala Thr Trp Arg Tyr
 20 25 30
 Ser Thr Gly Asn Tyr Leu Ser Leu Met Asp Ala Thr Leu Leu His Gln

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<210> 6059
<211> 387
<212> PRT
<213> Enterobacter cloacae
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<400> 6059															
Glu	Gly	Glu	Met	Lys	Ile	Ser	Gly	Trp	Ile	Ser	Val	Ala	Thr	Phe	Phe
1				5					10					15	
Cys	Leu	Leu	Ile	Phe	Ser	Asn	Ala	Ala	Met	Ala	Glu	Thr	Cys	Ser	Leu
			20					25					30		
Asp	Ser	Ala	Ser	Val	Phe	Lys	Thr	Ala	Ser	Asn	Val	Ser	Met	Pro	Leu
		35					40					45			
Asn	Ile	Ser	Ser	Ile	Ala	Val	Ser	Asn	Asp	Ile	Pro	Asp	Gly	Thr	Ile

50	55	60
Ile Tyr Gln Gln Lys Tyr	Ile Pro Gly Tyr Ser	Ser Ile Ser Val Asn
65	70	75
Cys Asp Glu Ser Arg Ser	Trp Tyr Tyr Val Met	Ser Leu Thr Asn Thr
85	90	95
Pro Met Pro Leu Ser Ser	Trp Thr Gly Thr Ile	Ile Ser His Glu Ser
100	105	110
Trp Val Ala Glu Tyr Ser	Trp Asp Gly Tyr Ile	Tyr Glu Thr Gly Ile
115	120	125
Pro Gly Ile Gly Ile Thr	Ile Ser Met Met Ser	Val Arg Arg Pro Ala
130	135	140
Pro Gly Ile Val Gly Thr	Asn Cys Phe Ala Ser	Lys Ser Cys Thr Asp
145	150	155
Thr Gly Met Lys Ala Arg	Ala Ile Ile Ala Leu	Val Lys Thr Gly Pro
165	170	175
Ile Ser Ala Gly Val Ile	Asn Ala Gly Asn Phe	Pro Thr Met Lys Val
180	185	190
Ala Leu Gly Arg Glu Ala	Thr Asn Ile Thr Leu	Tyr Thr Leu Ser Phe
195	200	205
Thr Gly Ser Leu Asn Val	Thr Leu Pro Thr Cys	Thr Thr Pro Asp Phe
210	215	220
Asn Val Ser Leu Gly Lys	Trp Thr Thr Glu His	Phe Thr Gly Lys Gly
225	230	235
Ser Ser Thr Pro Trp Val	Ala Ala Asn Ile Val	Leu Ser Asn Cys Gly
245	250	255
Asp Phe Ile Gly Ser Asn	Val Ser Gly Asp Met	Ser Asp Gly Asn Tyr
260	265	270
Trp Ser Asp Asn Gly Ser	Ser Phe Ser Ser Thr	Met Gln Trp Asn Thr
275	280	285
Trp Ser Ile Thr Leu Ser	Pro Val Ser Ser Val	Leu Asp Ser Ala Ser
290	295	300
Gly Ile Met Ser Val Asp	Thr Ser Val Pro Ser	Ala Ala Thr Gly Ile
305	310	315
Gly Ile Gln Ile Ser Ser	Gly Asp Thr Thr Ser	Ala Asp Ser His Ile
325	330	335
Ile Asp Phe Gly Asn Ala	Leu Thr Gly Thr Phe	Asn Ser Asp Gly Ser
340	345	350
Ser Ser Val Thr Ile Pro	Leu Ser Ala Arg Tyr	Ile Gln Thr Glu Asp
355	360	365
Ser Val Thr Ala Gly Met	Ala Asn Gly Lys Leu	Val Tyr Thr Ile Ser
370	375	380
Tyr Tyr		
385		

<210> 6060

<211> 405

<212> PRT

<213> Enterobacter cloacae

<400> 6060

Gln Val Met Ile Lys Lys Lys	Gly Leu Gly Phe Asn Ala	Ile Thr Ala
1	5	10
Leu Ile Met Leu Thr Thr	Ser Asn Cys Val Ile	Ala Glu Glu Tyr Gln
20	25	30
Leu Pro Ala Thr Ile Asn Asn	Pro Val Val Met Pro	Val Gly Ala Asp
35	40	45
Gly Phe Gln Asn Gly Ala Ala	Lys Ala Ile Ile Pro	Gly Gln Ala Gly
50	55	60
Ser Glu Gln Ser Gly Ala Gln	Thr Asn Leu Ser Glu	Ala Gly Asn Ala
65	70	75
Gln Gly Gln Lys Pro Thr	Thr Asp Leu Pro Thr	Val Gln Leu Ser Pro


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<210> 6061
<211> 301
<212> PRT
<213> Enterobacter cloacae
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<400> 6061															
Lys	Ser	Tyr	His	Arg	Arg	Val	Lys	Leu	Met	Ile	Lys	Asn	Asn	Glu	Leu
1				5					10					15	
Ile	His	Pro	Phe	Asp	Val	Thr	Ser	Asn	Glu	Ser	Gly	Lys	Thr	Tyr	Gln
			20					25					30		
Leu	Thr	Pro	Asn	Ser	Ser	Lys	Ser	Val	Gln	Pro	Val	Ala	Leu	Leu	Arg
		35				40						45			
Leu	Ser	Val	Phe	Thr	Pro	Val	Gly	Thr	Lys	Glu	Asn	Arg	Asp	Arg	Asn
	50					55					60				
Phe	Glu	Val	Asp	Ala	Ser	Asp	Glu	Leu	Ser	Cys	Met	Glu	Ile	Ala	Arg
65				70					75					80	
Ser	Glu	Gly	Tyr	Asp	Ile	Lys	Ile	Thr	Gly	Val	Lys	Leu	Ser	Met	
			85					90					95		
Ser	Thr	Asp	Phe	Lys	Cys	Trp	Leu	Gly	Ile	Ile	Met	Ala	Phe	Ser	Lys

			100					105				110			
Tyr	Gly	Phe	Thr	Ser	Glu	Lys	Ile	Ser	Leu	Thr	Phe	Asn	Glu	Phe	Ala
		115					120					125			
Lys	Met	Cys	Gly	Ile	Ser	Ser	Thr	Asn	Ile	Asn	Lys	Arg	Thr	Arg	Ala
	130					135					140				
Arg	Phe	Lys	Glu	Ser	Leu	Met	Asn	Leu	Ala	Ser	Val	Val	Leu	Ala	Phe
145					150					155					160
Ser	Asp	Ser	Arg	Ser	Gly	Arg	Phe	Thr	Val	Thr	His	Leu	Val	Gln	Lys
				165					170					175	
Ala	Met	Ile	Asp	Pro	Lys	Ser	Asp	Thr	Val	Glu	Leu	Val	Gly	Asp	Pro
			180					185					190		
Ser	Met	Trp	Glu	Leu	Tyr	Arg	Tyr	Asp	His	Lys	Thr	Leu	Leu	Ser	Leu
		195					200					205			
Gln	Val	Leu	Tyr	Ile	Leu	Ala	Lys	Lys	Glu	Ala	Ala	Gln	Ser	Leu	Tyr
	210					215					220				
Ile	Tyr	Phe	Glu	Ala	Met	Pro	Ala	Gly	Thr	Leu	Phe	Val	Asn	Met	Lys
225					230					235					240
Arg	Leu	Arg	Glu	Arg	Leu	Leu	Leu	Thr	Thr	Pro	Ile	Arg	Thr	Gln	Asn
				245					250					255	
Gln	Ile	Ile	Arg	Lys	Ala	Met	Arg	Glu	Leu	Glu	Ser	Ile	Gly	Tyr	Leu
			260					265					270		
Asp	Tyr	Gln	Glu	Val	Lys	Lys	Gly	Arg	Asp	Ile	Gln	Phe	Gln	Ile	Phe
		275					280					285			
Lys	Arg	Ser	Pro	Lys	Leu	Ala	Leu	Ala	Lys	Gln	Gly				
	290					295					300				

<210> 6062

<211> 263

<212> PRT

<213> Enterobacter cloacae

<400> 6062

Met	Lys	Met	Leu	Ser	Gly	Ile	Asn	Ile	Pro	Phe	Phe	Lys	Lys	Ser	Lys
1				5				10						15	
Lys	Asp	Glu	Asn	Gly	Asp	Leu	Glu	Gln	Ser	Tyr	Val	Lys	Lys	Asp	Glu
		20						25					30		
Ser	Ala	Lys	Gly	Arg	Phe	Leu	Asp	Ile	Lys	Lys	Arg	Phe	Ser	Pro	Gln
		35					40					45			
Ala	Glu	Ala	Ser	Gly	Ala	Gly	Ile	Thr	Tyr	Ser	Ala	Leu	Ile	Asn	Arg
	50					55					60				
Asp	Thr	Lys	Leu	Ile	Arg	Ile	Asn	Thr	Val	Ser	Ile	Ala	Val	Ile	Gly
65				70					75						80
Leu	Leu	Val	Ala	Lys	Ile	Leu	Phe	Phe	Thr	Asp	Pro	Val	Thr	Ile	Val
				85					90					95	
Thr	Pro	Pro	Asn	Met	Asn	Glu	Glu	Ile	Thr	Val	Val	Gly	Asn	Lys	Ala
			100					105					110		
Ser	Glu	Ser	Tyr	Lys	Thr	Gln	Trp	Ala	Leu	Phe	Phe	Ser	Thr	Leu	Leu
		115					120					125			
Gly	Asn	Ile	Asn	Pro	Thr	Asn	Ile	Ser	Phe	Val	Thr	Ala	Tyr	Val	Leu
	130					135					140				
Asp	Ala	Leu	Ser	Pro	Glu	Leu	Gln	Ala	Lys	Thr	Ser	Glu	Ser	Leu	Gln
145					150					155					160
Glu	Gln	Ile	Asn	Ile	Met	Gln	Ala	Arg	Gly	Val	Glu	Gln	Thr	Phe	Lys
				165					170					175	
Pro	Asn	Asp	Ile	Tyr	Phe	Asp	Pro	Lys	Asn	Asp	Met	Val	Tyr	Val	Trp
			180					185					190		
Gly	Thr	Lys	Thr	Thr	Arg	Leu	Val	Asn	Val	Pro	Asp	Lys	Thr	Glu	Ser
		195					200					205			
Ser	Lys	Trp	Thr	Tyr	Glu	Trp	Val	Leu	Gly	Met	Lys	Asn	Gly	Arg	Pro
	210					215					220				
Arg	Ile	Ala	Tyr	Val	Asn	Gln	Tyr	Ser	Gly	Thr	Pro	Asn	Ile	Lys	Lys

```
<210> 6063
<211> 214
<212> PRT
<213> Enterobacter cloacae
```

[illegible]

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<210> 6064
<211> 148
<212> PRT
<213> Enterobacter cloacae
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Ser	Cys	Ala	Pro	Leu	Gly	Ala	Gly	Val	Leu	Leu	Met	Tyr	Asp	Glu	Val
1				5					10					15	
Lys	Ile	Leu	Thr	Arg	Arg	Arg	Pro	Val	Met	Ser	Gln	His	Asp	Ala	Ile
			20					25					30		
Ile	Arg	Ile	Lys	Asn	Leu	Arg	Leu	Arg	Thr	Phe	Ile	Gly	Ile	Lys	Glu
			35				40					45			
Glu	Glu	Ile	Ala	Asn	Arg	Gln	Asp	Ile	Val	Val	Asn	Val	Val	Ile	His
						55					60				
Tyr	Pro	Ala	Asp	Lys	Ala	Arg	Ala	Ser	Glu	Asp	Ile	Asn	Asp	Ala	Leu
65					70					75					80
Asn	Tyr	Arg	Thr	Ile	Thr	Lys	Ser	Ile	Ile	Gln	Tyr	Val	Glu	Asn	Asn
				85					90					95	
Arg	Phe	Ala	Leu	Glu	Lys	Leu	Thr	Gln	Asp	Val	Leu	Asp	Ile	Ala	
			100				105					110			

Arg Glu His His Trp Val Thr Tyr Ala Glu Val Glu Ile Asp Lys Leu
 115 120 125
 His Ala Leu Arg Tyr Ala Asp Ser Val Ser Met Thr Leu Ser Trp Gln
 130 135 140
 Arg Gln Ala
 145

<210> 6065

<211> 171

<212> PRT

<213> Enterobacter cloacae

<400> 6065

Tyr Gly Val Thr Met Ala Thr Ile Thr Thr Thr Arg Leu Asn Leu Thr
 1 5 10 15
 Pro Phe Glu Pro Ser Asp Trp Ala Phe Phe Arg Ser Leu Arg Glu Asp
 20 25 30
 Pro Ala Ile Met Arg Tyr Met Ala Ala Ile Thr Pro Glu Lys Glu Thr
 35 40 45
 Arg Arg Val Phe Ala Ala Arg Leu Met Ala Glu His Val Phe Val Ile
 50 55 60
 Arg Leu His Asn Asp Val Lys Pro Leu Gly Asp Ile Gly Leu Gln Ile
 65 70 75 80
 Ser Ala Ala Asn Arg Glu Glu Ala Asp Ile Gly Tyr Thr Val Val Pro
 85 90 95
 Ala Ala Gln Gly Lys Gly Ile Ala Ser Glu Ala Leu Arg Ala Val Cys
 100 105 110
 Glu Tyr Ala Phe Asn Gln Thr Gly Val Lys Ala Ile Asn Ala Tyr Val
 115 120 125
 Leu Ala Asp Asn Val Gly Ser Val Arg Val Leu Glu Lys Ala Gly Phe
 130 135 140
 Val Arg Thr Gln Val Leu Glu Lys Ala Tyr Glu Ile Asn Gly Val Arg
 145 150 155 160
 Tyr Asp Asp Trp Val Tyr Arg Leu Glu Cys
 165 170

<210> 6066

<211> 309

<212> PRT

<213> Enterobacter cloacae

<400> 6066

Ala Gly Ser Ala Arg Arg Lys Pro Gly Gly Cys Met Lys Ile Leu Leu
 1 5 10 15
 Thr Gly Gly Thr Gly Leu Ile Gly Arg His Leu Ile Pro Arg Leu Gln
 20 25 30
 Ala Leu His His Asp Ile Thr Val Val Thr Arg Ser Pro Glu Lys Ala
 35 40 45
 Arg Gln Val Leu Gly Thr Gly Val Glu Ile Trp Lys Gly Leu Ala Glu
 50 55 60
 Arg Gln Asp Leu Asn Gly Phe Asp Ala Val Ile Asn Leu Ala Gly Glu
 65 70 75 80
 Pro Ile Ala Asp Lys Arg Trp Thr Glu Glu Gln Lys Gln Arg Leu Cys
 85 90 95
 Ser Ser Arg Trp Asn Met Thr Glu Arg Leu Val Glu Leu Ile Arg Asn
 100 105 110
 Ser Glu Thr Pro Pro Ser Val Leu Ile Ser Gly Ser Ala Thr Gly Tyr
 115 120 125
 Tyr Gly Asp Leu Gly Glu Val Val Val Thr Glu Glu Glu Pro Pro His
 130 135 140
 Asn Glu Phe Thr His Lys Leu Cys Ala Gln Trp Glu Arg Ile Ala Cys

145					150					155				160
Gly	Ala	Gln	Ser	Asp	Asn	Thr	Arg	Val	Cys	Leu	Leu	Arg	Thr	Gly
				165					170					175
Val	Leu	Ala	Pro	Lys	Gly	Gly	Ile	Leu	Gly	Lys	Met	Leu	Pro	Phe
			180					185					190	
Lys	Met	Gly	Leu	Gly	Gly	Pro	Ile	Gly	Asn	Gly	Arg	Gln	Tyr	Leu
		195					200					205		Ala
Trp	Ile	His	Ile	Asp	Asp	Met	Val	Asn	Gly	Ile	Leu	Trp	Leu	Leu
	210					215					220			Asp
Asn	Asp	Leu	Arg	Gly	Pro	Phe	Asn	Met	Val	Ser	Pro	Tyr	Pro	Val
	225				230					235				Arg
Asn	Glu	Gln	Phe	Ala	His	Ala	Leu	Gly	His	Ala	Leu	His	Arg	Pro
			245						250					Ala
Val	Leu	Arg	Val	Pro	Ala	Thr	Ala	Ile	Arg	Leu	Leu	Met	Gly	Glu
			260					265					270	Ser
Ser	Val	Leu	Val	Leu	Gly	Gly	Gln	Arg	Ala	Leu	Pro	Lys	Arg	Leu
		275					280					285		Glu
Ala	Ala	Gly	Phe	Thr	Phe	Arg	Trp	Tyr	Asp	Leu	Glu	Glu	Ala	Leu
	290					295					300			Gly
Asp	Val	Val	Gln											
	305													

<210> 6067

<211> 168

<212> PRT

<213> Enterobacter cloacae

<400> 6067

Arg	Cys	Gly	Pro	Met	Arg	Thr	Phe	Phe	Ser	Pro	Tyr	Val	Met	Ser	Val
1				5					10					15	
Tyr	Val	Ala	Leu	Ala	Glu	Lys	Gly	Leu	Thr	Phe	Thr	Leu	Lys	Thr	Val
			20					25					30		
Asp	Leu	Asp	Ser	Gly	Glu	His	Leu	Lys	Pro	Gln	Trp	Gln	Gly	Tyr	Ala
		35					40					45			
Leu	Thr	Arg	Arg	Val	Pro	Val	Leu	Glu	Ile	Asp	Gly	Phe	Glu	Leu	Ser
	50					55				60					
Glu	Ser	Ser	Ala	Ile	Asp	Glu	Tyr	Leu	Glu	Asp	Arg	Phe	Ala	Pro	Pro
	65				70					75				80	
Glu	Trp	Glu	Arg	Ile	Tyr	Pro	His	Asp	Leu	Gln	Lys	Arg	Ala	Arg	Ala
			85					90						95	
Arg	Gln	Ile	Gln	Ala	Trp	Leu	Arg	Ser	Asp	Leu	Val	Pro	Ile	Arg	Thr
			100					105					110		
Glu	Arg	Ser	Thr	Asp	Val	Val	Phe	Ala	Gly	Val	Lys	Lys	Pro	Ala	Leu
		115					120					125			
Ser	Glu	Glu	Gly	Leu	Ser	Ser	Ala	Arg	Lys	Leu	Ile	Glu	Thr	Ala	Ser
	130					135					140				
Ser	Leu	Leu	Ala	Gln	Gly	Asn	Pro	Ser	Phe	His	Arg	Arg	Arg	His	Glu
	145				150					155					160
Gly	Lys	Thr	Tyr	Lys	Pro	Gly	Gly								
				165											

<210> 6068

<211> 240

<212> PRT

<213> Enterobacter cloacae

<400> 6068

Glu	Val	Leu	Lys	Gly	Val	Ser	Leu	Glu	Ala	Asn	Ala	Gly	Asp	Val	Ile
1				5					10					15	
Ser	Ile	Ile	Gly	Ser	Ser	Gly	Ser	Gly	Lys	Ser	Thr	Phe	Leu	Arg	Cys
			20					25					30		

```

Ile Asn Phe Leu Glu Lys Pro Ser Glu Gly Ser Ile Val Val Ser Gly
    35          40          45
Gln Asn Ile Asn Met Val Arg Asp Lys Asp Gly Gln Leu Lys Val Ala
    50          55          60
Asp Lys Asn Gln Leu Arg Leu Leu Arg Thr Arg Leu Thr Met Val Phe
65          70          75          80
Gln His Phe Asn Leu Trp Ser His Met Thr Val Leu Glu Asn Val Met
    85          90          95
Glu Ala Pro Val Gln Val Leu Gly Leu Ser Lys Gln Glu Ala Arg Glu
    100          105          110
Arg Ala Val Lys Tyr Leu Ala Lys Val Gly Ile Asp Glu Arg Gln Gln
    115          120          125
Ile Lys Tyr Pro Val His Leu Ser Gly Gly Gln Gln Gln Arg Val Ser
    130          135          140
Ile Ala Arg Ala Leu Ala Met Glu Pro Glu Val Leu Leu Phe Asp Glu
145          150          155          160
Pro Thr Ser Ala Leu Asp Pro Glu Leu Val Gly Glu Val Leu Arg Ile
    165          170          175
Met Gln Lys Leu Ala Glu Glu Gly Lys Thr Met Val Val Val Thr His
    180          185          190
Glu Met Gly Phe Ala Arg Asn Val Ser Asn His Val Ile Phe Leu His
    195          200          205
Gln Gly Lys Ile Glu Glu Gln Gly His Pro Asp Glu Val Leu Ala Asn
    210          215          220
Pro Gln Ser Pro Arg Leu Gln Gln Phe Leu Lys Gly Ser Leu Lys
225          230          235          240

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<210> 6069

<211> 350

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (336)

<400> 6069

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His Asn Leu Leu Phe Gln Thr Arg Gln Asp Lys Gln Thr Asn Leu Ile
1          5          10          15
Asp Ile Asn Phe Leu Ala Leu Pro Met Asn Leu Arg Asp Asp Arg Arg
    20          25          30
Ile Asp Met Arg Asn Ser Met Asn Ala Phe Ser Pro Ala Gln Phe Arg
    35          40          45
Ala Gln Phe Pro Ala Leu Ala Asp Ala Gly Ile Tyr Leu Asp Ser Ala
    50          55          60
Ala Thr Ala Leu Lys Pro Gln Ala Val Ile Glu Ala Thr Arg Gln Phe
65          70          75          80
Tyr Ser Leu Ser Ala Gly Asn Val His Arg Ser Gln Tyr Ala Asp Ala
    85          90          95
Gln Arg Leu Thr Ala Gln Tyr Glu Ala Ala Arg Asp Gln Val Ala Arg
    100          105          110
Leu Ile Asn Ala Asp Ser Gly Lys Asn Ile Val Trp Thr Arg Gly Thr
    115          120          125
Thr Glu Ala Ile Asn Met Val Ala Gln Cys Tyr Ala Arg Pro Leu Leu
    130          135          140
Gln Pro Gly Asp Glu Ile Val Ser Glu Ala Glu His His Ala Asn
145          150          155          160
Leu Val Pro Trp Leu Met Val Ala Glu Gln Thr Gly Ala Gln Val Val
    165          170          175
Lys Leu Pro Leu Gly Ala Asp Phe Leu Pro Asp Val Ala Arg Leu Pro
    180          185          190

```

Glu Leu Ile Thr Pro Arg Ser Arg Ile Leu Ala Leu Gly Gln Met Ser
 195 200 205
 Asn Val Thr Gly Gly Cys Pro Asp Leu Ala Arg Ala Ile Glu Ile Ala
 210 215 220
 His Ala Ser Gly Val Val Val Met Val Asp Gly Ala Gln Gly Val Val
 225 230 235 240
 His Phe Pro Ala Asp Val Gln Ala Leu Asp Ile Asp Phe Tyr Ala Phe
 245 250 255
 Ser Gly His Lys Leu Tyr Gly Pro Thr Gly Ile Gly Ala Leu Tyr Gly
 260 265 270
 Lys Pro Glu Leu Leu Ala Arg Met Thr Pro Trp Leu Gly Gly Lys
 275 280 285
 Met Ile Thr Glu Val Thr Phe Asp Gly Phe Lys Thr Gln Asp Val Pro
 290 295 300
 Tyr Arg Leu Glu Ala Gly Thr Pro Asn Val Ala Gly Val Ile Gly Leu
 305 310 315 320
 Ser Ala Ala Leu Glu Trp Leu Ala Lys Thr Asp Val Val Gln Ala Xaa
 325 330 335
 Ser Trp Asn Arg Gly Leu Ala Thr Leu Val Glu Lys Asp
 340 345 350

<210> 6070

<211> 167

<212> PRT

<213> Enterobacter cloacae

<400> 6070

Arg Arg Cys Ala Gly Phe Arg Arg Arg Pro Arg Pro Gly Ile Thr Gly
 1 5 10 15
 Gly Leu Met Thr Ser Ser Ala Leu Ala Gly His Pro Phe Gly Thr Val
 20 25 30
 Ile Thr Glu Glu Thr Leu Lys Gln Thr Phe Val Pro Leu Thr Gln Trp
 35 40 45
 Glu Asp Lys Tyr Arg Gln Leu Ile Leu Leu Gly Lys Gln Leu Pro Ala
 50 55 60
 Leu Ser Asp Glu Leu Lys Leu Gln Ala Lys Glu Ile Ala Gly Cys Glu
 65 70 75 80
 Asn Arg Val Trp Leu Gly Phe Ser Val Ser Gly Glu Lys Leu His Phe
 85 90 95
 Phe Gly Asp Ser Glu Gly Arg Ile Val Arg Gly Leu Leu Ala Val Leu
 100 105 110
 Leu Thr Ala Ile Glu Gly Lys Ser Ala Ala Glu Leu Leu Ala His Ser
 115 120 125
 Pro Leu Ala Leu Phe Asp Glu Leu Gly Leu Arg Thr Gln Leu Ser Ala
 130 135 140
 Ser Arg Gly Gln Gly Leu Ile Ala Leu Asn Asp Ala Val Leu Asp Ala
 145 150 155 160
 Ala Arg Gln Ala Gln Ala
 165

<210> 6071

<211> 70

<212> PRT

<213> Enterobacter cloacae

<400> 6071

Phe Arg Gly Arg Ala His Ser Asp Met Val Thr Leu Leu Ala Gly Tyr
 1 5 10 15
 Gly Ile Ala Leu Arg Ala Gly Gln His Cys Ala Gln Pro Leu Leu Ala
 20 25 30
 Ala Ile Gly Val Ser Gly Thr Leu Arg Ala Ser Phe Ala Pro Tyr Asn

35 40 45
 Thr Lys Ser Asp Val Asp Ala Leu Val Ser Ala Val Asp Arg Ala Leu
 50 55 60
 Glu Leu Leu Val Asp
 65 70

<210> 6072

<211> 378

<212> PRT

<213> Enterobacter cloacae

<400> 6072

Gly Gly Gly Thr Thr Thr Ser Ala Pro Gly Glu Asp Asn Glu Arg Ser
 1 5 10 15
 Trp Ala Lys Tyr Leu Met Thr Gly Ala Met Val Ala Ile Leu Ala Ala
 20 25 30
 Cys Ser Ser Lys Pro Thr Asp Arg Gly Gln Gln Tyr Lys Asp Gly Lys
 35 40 45
 Leu Ser Gln Pro Phe Ser Leu Val Asn Gln Pro Asp Ala Val Gly Ala
 50 55 60
 Pro Ile Asn Ala Gly Asp Phe Ser Glu Gln Val Tyr Gln Ile Arg Lys
 65 70 75 80
 Ala Ser Pro Arg Leu Tyr Gly Ala Gln Asn Asn Val Tyr Ser Ala Val
 85 90 95
 Gln Asp Trp Leu Arg Ala Gly Gly Asp Thr Arg Asn Met Arg Gln Phe
 100 105 110
 Gly Ile Asp Ala Trp Gln Met Glu Gly Ala Asp Asn Tyr Gly Asn Val
 115 120 125
 Gln Phe Thr Gly Tyr Tyr Thr Pro Val Val Gln Ala Arg His Thr Arg
 130 135 140
 Gln Gly Glu Phe Gln Tyr Pro Ile Tyr Arg Met Pro Pro Lys Arg Gly
 145 150 155 160
 Arg Leu Pro Ser Arg Ala Glu Ile Tyr Ala Gly Ala Leu Ser Glu Asn
 165 170 175
 Tyr Val Leu Ala Tyr Ser Asn Ser Leu Met Asp Asn Phe Ile Met Asp
 180 185 190
 Val Gln Gly Ser Gly Tyr Ile Asp Phe Gly Asp Gly Ser Pro Leu Asn
 195 200 205
 Phe Phe Ser Tyr Ala Gly Lys Asn Gly His Ala Tyr Arg Ser Ile Gly
 210 215 220
 Lys Val Leu Ile Asp Arg Gly Glu Val Lys Arg Glu Asp Met Ser Met
 225 230 235 240
 Gln Ala Ile Arg Glu Trp Gly Glu Lys His Ser Glu Ala Glu Val Arg
 245 250 255
 Glu Leu Leu Glu Gln Asn Pro Ser Phe Val Phe Phe Lys Pro Gln Asn
 260 265 270
 Phe Ala Pro Val Lys Gly Ala Ser Ala Val Pro Leu Ile Gly Arg Ala
 275 280 285
 Ser Val Ala Ser Asp Arg Ser Ile Ile Pro Ala Gly Thr Thr Leu Leu
 290 295 300
 Ala Glu Val Pro Leu Leu Asp Asn Asn Gly Lys Phe Asn Gly Lys Tyr
 305 310 315 320
 Glu Leu Arg Leu Met Val Ala Leu Asp Val Gly Gly Ala Ile Lys Gly
 325 330 335
 Gln His Phe Asp Ile Tyr Gln Gly Ile Gly Pro Asp Ala Gly His Arg
 340 345 350
 Ala Gly Trp Tyr Asn His Tyr Gly Arg Val Trp Val Leu Lys Thr Ala
 355 360 365
 Pro Gly Thr Gly Asn Val Phe Ser Gly
 370 375

<210> 6073
 <211> 271
 <212> PRT
 <213> Enterobacter cloacae

<400> 6073

```

Gly Phe Met Ser Val Val Ile Ser Asp Ala Trp Arg Gln Arg Phe Gly
1          5          10          15
Gly Thr Ala Arg Leu Tyr Gly Glu Lys Ala Leu Gln Leu Phe Ala Asp
20          25          30
Ala His Val Cys Val Val Gly Ile Gly Gly Val Gly Ser Trp Ala Ala
35          40          45
Glu Ala Leu Ala Arg Thr Gly Ile Gly Ala Ile Thr Leu Ile Asp Met
50          55          60
Asp Asp Val Cys Val Thr Asn Thr Asn Arg Gln Ile His Ala Leu Arg
65          70          75          80
Asp Asn Val Gly Leu Ala Lys Ser Glu Val Met Ala Glu Arg Ile Arg
85          90          95
Leu Ile Asn Pro Glu Cys Arg Val Thr Val Ile Asp Asp Phe Val Thr
100         105         110
Ala Asp Asn Val Ala Glu Tyr Met Ser Lys Gly Tyr Ser Tyr Val Ile
115         120         125
Asp Ala Ile Asp Ser Val Arg Pro Lys Ala Ala Leu Ile Ala Tyr Cys
130         135         140
Arg Arg Tyr Lys Val Pro Leu Val Thr Thr Gly Gly Ala Gly Gly Gln
145         150         155         160
Ile Asp Pro Thr Gln Ile Gln Val Ala Asp Leu Ala Lys Thr Ile Gln
165         170         175
Asp Pro Leu Ala Ala Lys Leu Arg Glu Arg Leu Lys Ser Asp Phe Asn
180         185         190
Val Val Lys Asn Ser Lys Gly Lys Leu Gly Val Asp Cys Val Phe Ser
195         200         205
Thr Glu Ala Leu Val Tyr Pro Gln Ala Asp Gly Ser Val Cys Ala Met
210         215         220
Lys Ser Thr Ala Glu Gly Pro Lys Arg Met Asp Cys Ala Ser Gly Phe
225         230         235         240
Gly Ala Ala Thr Met Val Thr Ala Ser Phe Gly Phe Val Ala Val Ser
245         250         255
His Ala Leu Lys Lys Met Met Ala Lys Ala Glu Arg Gln Ala
260         265         270

```

<210> 6074
 <211> 69
 <212> PRT
 <213> Enterobacter cloacae

<400> 6074

```

Leu Leu Lys Glu Ile Ile Met Lys Lys Thr Ala Ala Ile Ile Ser Ala
1          5          10          15
Cys Ala Leu Thr Phe Ala Leu Ser Ala Cys Ser Gly Asn Asn Tyr Val
20          25          30
Met His Thr Asn Asp Gly Arg Ser Ile Val Ser Glu Gly Lys Pro Thr
35          40          45
Thr Asp Asn Asp Thr Gly Met Ile Cys Leu His Thr Arg Arg Trp Lys
50          55          60
Ile Arg Tyr Cys Val
65

```

<210> 6075
 <211> 154
 <212> PRT

<213> Enterobacter cloacae

<220>

<221>UNSURE

<222>(93)

<220>

<221>UNSURE

<222>(135)

<220>

<221>UNSURE

<222>(142)

<400> 6075

His	Leu	Leu	Cys	Ile	Asp	Ser	Lys	Thr	His	Glu	Phe	Arg	Leu	Pro	Glu
1			5						10					15	
Arg	Pro	Arg	Ala	Ser	Asn	Leu	Ala	Arg	Tyr	Phe	Leu	Pro	Pro	Val	Asn
			20					25					30		
Arg	Ile	Thr	Ala	Met	Pro	Arg	Ala	Asn	Glu	Ile	Lys	Lys	Gly	Met	Val
		35					40					45			
Leu	Asn	Tyr	Asn	Gly	Lys	Leu	Ile	Val	Lys	Asp	Ile	Asp	Ile	Gln	
	50					55				60					
Ala	Pro	Ser	Ala	Arg	Gly	Ala	Ala	Thr	Leu	Tyr	Lys	Met	Arg	Phe	Ser
65					70					75					80
Asp	Val	Arg	Thr	Gly	Leu	Lys	Val	Glu	Glu	Arg	Phe	Xaa	Gly	Asp	Asp
				85				90						95	
Ile	Val	Asp	Thr	Val	Thr	Leu	Thr	Arg	Arg	Tyr	Val	Asp	Phe	Ser	Tyr
			100					105					110		
Ile	Asp	Gly	Asn	Glu	Tyr	Val	Phe	Met	Asp	Lys	Glu	Asn	Tyr	Pro	Arg
		115						120				125			
Ile	Ser	Ser	Pro	Lys	Ile	Xaa	Ser	Lys	Lys	Ser	Cys	Cys	Xaa	Phe	Leu
	130					135						140			
Lys	Val	Gly	Cys	Arg	Thr	Cys	Arg	Cys							
145						150									

<210> 6076

<211> 424

<212> PRT

<213> Enterobacter cloacae

<400> 6076

Phe	Phe	Val	Ala	Ile	Leu	Thr	Leu	Pro	Ser	Val	Tyr	Leu	Met	Thr	Gly
1				5					10					15	
Gly	Val	Asn	Ser	Ala	Ser	Leu	Cys	Tyr	Ser	Gln	Arg	Leu	Asn	Met	His
			20					25					30		
Asn	Thr	Pro	Ala	Ala	Ala	Ser	Pro	Lys	Pro	Phe	Asp	Leu	Thr	Ser	Thr
		35					40					45			
Ala	Phe	Leu	Ile	Val	Ala	Phe	Leu	Thr	Gly	Ile	Ala	Gly	Ala	Leu	Gln
	50					55				60					
Thr	Arg	Thr	Leu	Ser	Leu	Phe	Leu	Thr	Asn	Glu	Val	His	Ala	Arg	Pro
65					70					75					80
Ala	Met	Val	Gly	Phe	Phe	Phe	Thr	Gly	Ser	Ala	Ile	Ile	Gly	Ile	Phe
				85				90						95	
Val	Ser	Gln	Phe	Leu	Ala	Gly	Arg	Ser	Asp	Arg	Lys	Gly	Asp	Arg	Lys
			100					105					110		
Ser	Leu	Ile	Val	Phe	Cys	Cys	Leu	Leu	Gly	Val	Phe	Ala	Cys	Leu	Leu
		115					120					125			
Phe	Ala	Trp	Asn	Arg	Asn	Tyr	Phe	Ile	Leu	Leu	Phe	Val	Gly	Val	Phe
	130					135					140				
Leu	Ser	Ser	Phe	Gly	Ser	Thr	Ala	Asn	Pro	Gln	Met	Phe	Ala	Leu	Ala

```

145          150          155          160
Arg Glu His Ala Asp His Thr Gly Arg Glu Ala Val Met Phe Ser Ser
165          170          175
Ile Leu Arg Ala Gln Val Ser Leu Ala Trp Val Ile Gly Pro Pro Leu
180          185          190
Ala Tyr Ala Leu Ala Met Gly Phe Gly Phe Thr Val Met Tyr Leu Ser
195          200          205
Ala Ala Val Ala Phe Val Val Cys Gly Ala Met Val Trp Phe Phe Leu
210          215          220
Pro Ser Met Arg Lys Glu Pro Lys Val Ala Thr Gly Thr Leu Glu Ala
225          230          235
Pro Arg Arg Asn Arg Arg Asp Ala Leu Leu Phe Ile Ile Cys Thr
245          250          255
Leu Met Trp Gly Thr Asn Ser Leu Tyr Ile Ile Asn Met Pro Leu Phe
260          265          270
Ile Ile Asp Glu Leu His Leu Pro Glu Lys Leu Ala Gly Ile Met Met
275          280          285
Gly Thr Ala Ala Gly Leu Glu Ile Pro Thr Met Leu Ile Ala Gly Tyr
290          295          300
Tyr Ala Lys Arg Phe Gly Lys Arg Phe Leu Met Arg Val Ala Ala Val
305          310          315
Ala Gly Leu Leu Phe Tyr Val Gly Met Leu Thr Val His Thr Pro Ala
325          330          335
Leu Leu Leu Ala Leu Gln Leu Leu Asn Ala Ile Tyr Ile Gly Ile Leu
340          345          350
Ala Gly Ile Gly Met Leu Tyr Phe Gln Asp Leu Met Pro Gly Gln Ala
355          360          365
Gly Ser Ala Thr Thr Leu Tyr Thr Asn Thr Thr Arg Val Gly Trp Ile
370          375          380
Ile Ala Gly Ser Leu Ala Gly Val Val Ala Glu Ile Trp Asn Tyr His
385          390          395
Thr Val Phe Trp Ile Ala Leu Val Met Cys Val Met Thr Leu Ser Cys
405          410          415
Leu Thr Arg Ile Lys Asp Val
420

```

<210> 6077

<211> 332

<212> PRT

<213> Enterobacter cloacae

<400> 6077

```

Thr Gly Ala Glu Ser Asp Trp Arg Arg His Arg Gly Arg Ser Gly Gly
1      5      10      15
Gly Arg Ile Met Ser Arg Arg Val Ala Thr Ile Thr Leu Asn Pro Ala
20     25     30
Tyr Asp Leu Val Gly Phe Cys Pro Glu Ile Glu Arg Gly Glu Val Asn
35     40     45
Leu Val Arg Thr Thr Gly Leu His Ala Ala Gly Lys Gly Ile Asn Val
50     55     60
Ala Lys Val Leu Lys Asp Leu Gly Ile Asp Val Thr Val Gly Gly Phe
65     70     75     80
Leu Gly Lys Asp Asn Gln Asp Gly Phe Gln Gln Leu Phe Ser Glu Leu
85     90     95
Gly Ile Ala Asn Arg Phe Gln Val Val Gln Gly Arg Thr Arg Ile Asn
100    105    110
Val Lys Leu Thr Glu Lys Asp Gly Glu Val Thr Asp Leu Asn Phe Ser
115    120    125
Gly Phe Glu Val Thr Pro Ala Asp Trp Glu Arg Phe Val Ala Asp Ser
130    135    140
Leu Ser Trp Leu Gly Gln Phe Asp Met Val Cys Val Ser Gly Ser Leu

```

145					150					155				160
Pro	Ser	Gly	Val	Ser	Pro	Glu	Ala	Phe	Thr	Asp	Trp	Met	Thr	Arg
				165					170					175
Arg	Ser	Gln	Cys	Pro	Cys	Ile	Ile	Phe	Asp	Ser	Ser	Arg	Asp	Ala
			180					185					190	
Val	Ala	Gly	Leu	Lys	Ala	Ser	Pro	Trp	Leu	Val	Lys	Pro	Asn	Arg
		195					200				205			
Glu	Leu	Glu	Ile	Trp	Ala	Gly	Arg	Lys	Leu	Pro	Glu	Leu	Lys	Asp
	210					215				220				
Ile	Asp	Ala	Ala	His	Ala	Leu	Arg	Glu	Gln	Gly	Ile	Ala	His	Val
225					230					235				240
Ile	Ser	Leu	Gly	Ala	Glu	Gly	Ala	Leu	Trp	Val	Asn	Ala	Ser	Gly
			245						250					255
Trp	Ile	Ala	Lys	Pro	Pro	Ser	Met	Glu	Val	Val	Ser	Thr	Val	Gly
		260						265					270	
Gly	Asp	Ser	Met	Val	Gly	Gly	Leu	Ile	Tyr	Gly	Leu	Leu	Met	Arg
	275						280				285			
Ser	Ser	Glu	His	Thr	Leu	Arg	Leu	Ala	Thr	Ala	Val	Ala	Ala	Leu
	290					295					300			
Val	Ser	Gln	Ser	Asn	Val	Gly	Ile	Thr	Asp	Arg	Thr	Gln	Leu	Ala
305				310						315				320
Met	Met	Ala	Arg	Val	Asp	Leu	Lys	Pro	Phe	Asn				
				325					330					

<210> 6078

<211> 389

<212> PRT

<213> Enterobacter cloacae

<400> 6078

Ala	Glu	Thr	Ile	Gln	Phe	Gln	Gln	Glu	Arg	Arg	Ile	Met	Phe	Gln	Leu
1				5				10						15	
Ser	Val	Gln	Asp	Ile	His	Pro	Gly	Glu	Gln	Ala	Gly	Asn	Lys	Glu	Glu
		20						25				30			
Ala	Ile	Arg	Gln	Val	Ala	Ala	Ala	Leu	Val	Gln	Ala	Gly	Asn	Val	Ala
	35					40					45				
Asp	Gly	Tyr	Val	Asn	Gly	Met	Leu	Ala	Arg	Glu	Gln	Gln	Thr	Ser	Thr
	50				55					60					
Phe	Leu	Gly	Asn	Gly	Ile	Ala	Ile	Pro	His	Gly	Thr	Thr	Asp	Thr	Arg
65			70					75							80
Asp	Gln	Val	Leu	Lys	Thr	Gly	Val	Gln	Val	Phe	Gln	Phe	Pro	Gln	Gly
			85					90					95		
Val	Leu	Trp	Gly	Glu	Gly	Gln	Val	Ala	Tyr	Val	Ala	Ile	Gly	Ile	Ala
	100						105					110			
Ala	Ser	Gly	Asp	Glu	His	Leu	Gly	Leu	Leu	Arg	Gln	Leu	Thr	His	Val
	115					120					125				
Leu	Ser	Asp	Asp	Ala	Val	Ala	Glu	Gln	Leu	Lys	Ser	Ala	Thr	Thr	Ala
	130				135					140					
Glu	Glu	Leu	Arg	Ala	Leu	Leu	Met	Gly	Glu	Lys	Gln	Ser	Glu	Ala	Leu
145				150					155						160
Lys	Leu	Asp	Asn	Glu	Thr	Leu	Thr	Leu	Asp	Val	Val	Ala	Ser	Asp	Leu
			165					170						175	
Val	Thr	Leu	Gln	Ala	Leu	Asn	Ala	Ala	Arg	Leu	Lys	Glu	Val	Gly	Ala
	180						185					190			
Ala	Asp	Ser	Ala	Phe	Val	Thr	Arg	Ala	Ile	Asn	Asp	Lys	Pro	Leu	Asn
	195					200						205			
Leu	Gly	Gln	Gly	Ile	Trp	Leu	Asn	Asp	Ser	Ala	Glu	Gly	Asn	Leu	Arg
	210				215						220				
Ser	Ala	Ile	Ala	Val	Ser	Arg	Ala	Ala	Val	Ala	Phe	Glu	Thr	Asp	Gly
225				230					235						240
Glu	Arg	Ala	Ala	Met	Leu	Val	Thr	Val	Ala	Met	Thr	Asp	Asp	Gln	Pro

Val	Ser	Val	Leu	245	Lys	Arg	Leu	Gly	Asp	250	Leu	Leu	Leu	Asn	Asn	255	Lys	Ala
			260						265						270			
Glu	Lys	Leu	Leu	Asn	Ala	Asp	Ala	Ala	Thr	Val	Leu	Ala	Leu	Leu	Thr			
		275					280						285					
Ser	Asp	Asp	Ala	Leu	Thr	Asp	Asp	Leu	Leu	Ser	Ala	Glu	Tyr	Val	Val			
	290					295					300							
Arg	Asn	Glu	His	Gly	Leu	His	Ala	Arg	Pro	Gly	Thr	Met	Leu	Val	Asn			
305				310						315					320			
Thr	Ile	Lys	Gln	Phe	Glu	Ser	Glu	Ile	Thr	Val	Thr	Asn	Leu	Asp	Gly			
			325						330					335				
Ser	Gly	Lys	Pro	Ala	Asn	Gly	Arg	Ser	Leu	Met	Lys	Val	Val	Ala	Leu			
			340					345					350					
Gly	Val	Lys	Lys	Gly	His	Arg	Leu	Arg	Phe	Thr	Ala	Gln	Gly	Ala	Asp			
		355					360					365						
Ala	Glu	Gln	Ala	Leu	Lys	Ala	Ile	Gly	Asp	Ala	Ile	Ala	Ala	Gly	Leu			
	370					375					380							
Gly	Glu	Gly	Ala															
385																		

<210> 6079

<211> 585

<212> PRT

<213> Enterobacter cloacae

<400> 6079

Asn	Leu	Leu	Thr	Asn	Ser	Arg	Arg	Gly	Ile	Met	Lys	Thr	Leu	Leu	Ile			
1			5					10					15					
Ile	Asp	Ser	Gly	Leu	Gly	Gln	Ala	Arg	Ala	Tyr	Met	Ala	Lys	Thr	Leu			
		20						25					30					
Leu	Gly	Ala	Ala	Ala	Gln	Lys	Ala	His	Leu	Asp	Ile	Ile	Asp	Asn	Pro			
		35					40					45						
Gly	Asp	Ala	Glu	Met	Ala	Ile	Val	Leu	Gly	Asp	Lys	Ile	Pro	Ala	Asp			
	50					55				60								
Ser	Ala	Leu	Asn	Gly	Lys	Lys	Val	Trp	Leu	Gly	Asp	Ile	Asn	Arg	Ala			
65				70					75					80				
Val	Ala	His	Pro	Glu	Leu	Phe	Leu	Ser	Glu	Ala	Lys	Gly	His	Ala	Thr			
			85					90						95				
Val	Tyr	Ser	Ala	Pro	Val	Glu	Ala	Ala	Pro	Val	Ala	Ala	Val	Gly	Pro			
			100					105					110					
Lys	Arg	Ile	Val	Ala	Val	Thr	Ala	Cys	Pro	Thr	Gly	Val	Ala	His	Thr			
	115						120					125						
Phe	Met	Ala	Ala	Glu	Ala	Ile	Glu	Thr	Glu	Ala	Lys	Lys	Arg	Gly	Trp			
	130					135					140							
Trp	Val	Lys	Val	Glu	Thr	Arg	Gly	Ser	Val	Gly	Ala	Gly	Asn	Ala	Ile			
145				150					155					160				
Thr	Pro	Glu	Glu	Val	Ala	Glu	Ala	Asp	Leu	Val	Ile	Val	Ala	Ala	Asp			
			165					170						175				
Ile	Glu	Val	Asp	Leu	Ala	Lys	Phe	Ala	Gly	Lys	Pro	Met	Tyr	Arg	Thr			
		180					185						190					
Ser	Thr	Gly	Leu	Ala	Leu	Lys	Lys	Thr	Ala	Gln	Glu	Phe	Asp	Lys	Ala			
		195				200						205						
Leu	Ala	Glu	Ala	Lys	Pro	Tyr	Gln	Ala	Thr	Gly	Ala	Ala	Lys	Thr	Ala			
	210					215					220							
Thr	Glu	Gly	Lys	Lys	Glu	Ser	Ala	Gly	Ala	Tyr	Arg	His	Leu	Leu	Thr			
225				230						235				240				
Gly	Val	Ser	Tyr	Met	Leu	Pro	Met	Val	Val	Ala	Gly	Gly	Leu	Cys	Ile			
			245					250					255					
Ala	Leu	Ser	Phe	Ala	Phe	Gly	Ile	Glu	Ala	Phe	Lys	Glu	Pro	Gly	Thr			
		260						265					270					
Leu	Ala	Ala	Ala	Leu	Met	Gln	Ile	Gly	Gly	Gly	Ser	Ala	Phe	Ala	Leu			

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<210> 6080
<211> 832
<212> PRT
<213> Enterobacter cloacae
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Lys 1	Arg	Trp	Gly	Cys 5	His	Cys	Trp	Arg	Ser 10	Leu	Val	Leu	Lys	Leu	Thr
Thr	Leu	Leu	Val 20	Pro	Trp	Arg	Ala	Lys 25	Arg	Lys	Lys	Ala	Ser 30	Arg	Pro
Val	Leu	Ile 35	Ser	Thr	Gly	Asp	Lys 40	Asp	Met	Ala	Gln	Leu 45	Val	Thr	Pro
Gly	Ile 50	Thr	Leu	Ile	Asn	Thr 55	Met	Thr	Asn	Thr	Ile 60	Leu	Gly	Pro	Glu
Glu 65	Val	Val	Ala	Lys	Tyr 70	Gly	Val	Pro	Pro	Glu	Leu	Ile	Ile	Asp	Phe 80
Leu	Ala	Leu	Met	Gly 85	Asp	Ser	Ser	Asp	Asn 90	Ile	Pro	Gly	Val	Pro	Gly
Val	Gly	Glu	Lys 100	Thr	Ala	Gln	Ala	Leu 105	Leu	Gln	Gly	Leu	Gly	Gly	Leu
Asp	Thr	Leu	Tyr	Ala	Glu	Ser	Asp	Lys	Ile	Ala	Gly	Leu	Thr	Phe	Arg

		115					120					125			
Gly 130	Ala 145	Lys 150	Thr 165	Met 180	Ala 195	Gly 210	Lys 225	Leu 240	Ala 255	Asp 270	Asn 285	Lys 300	Glu 315	Val 330	Ala 345
Tyr 145	Leu 160	Ser 175	Tyr 190	Gln 205	Leu 220	Ala 235	Thr 250	Ile 265	Lys 280	Thr 295	Asp 310	Val 325	Lys 340	Leu 355	Glu 370
Leu 160	Thr 175	Cys 190	Glu 205	Gln 220	Leu 235	Glu 250	Val 265	Gln 280	Glu 295	Pro 310	Ala 325	Ala 340	Asp 355	Glu 370	Leu 385
Leu 175	Gly 190	Leu 205	Phe 220	Arg 235	Lys 250	Tyr 265	Glu 280	Phe 295	Lys 310	Arg 325	Trp 340	Thr 355	Ala 370	Val 385	Leu 400
Glu 190	Ala 205	Gly 220	Lys 235	Trp 250	Leu 265	Gln 280	Ala 295	Lys 310	Gly 325	Ala 340	Lys 355	Pro 370	Ala 385	Val 400	Glu 415
Pro 205	Lys 220	Glu 235	Thr 250	Ile 265	Val 280	Val 295	Asp 310	Ala 325	Glu 340	Glu 355	Gln 370	Ala 385	Glu 400	Glu 415	Glu 430
Ala 225	Ile 240	Ala 255	Leu 270	Ser 285	Phe 300	Asp 315	Asn 330	Tyr 345	Glu 360	Thr 375	Ile 390	Lys 405	Glu 420	Glu 435	Ser 450
Arg 240	Leu 255	Val 270	Ala 285	Trp 300	Ile 315	Glu 330	Lys 345	Leu 360	Lys 375	Lys 390	Ala 405	Pro 420	Val 435	Phe 450	Leu 465
Phe 260	Asp 275	Thr 290	Glu 305	Thr 320	Asp 335	Ser 350	Leu 365	Asp 380	Asn 395	Ile 410	Thr 425	Ala 440	Val 455	Met 470	Trp 485
Gly 275	Leu 290	Ser 305	Phe 320	Ala 335	Thr 350	Glu 365	Pro 380	Gly 395	Val 410	Ala 425	Tyr 440	Val 455	Pro 470	Pro 485	Val 500
Ala 290	His 305	Asp 320	Tyr 335	Leu 350	Asp 365	Ala 380	Pro 395	Glu 410	Gln 425	Ile 440	Ser 455	Arg 470	Glu 485	Arg 500	Ala 515
Leu 305	Glu 320	Leu 335	Leu 350	Lys 365	Pro 380	Ile 395	Leu 410	Glu 425	Tyr 440	Glu 455	Lys 470	Ala 485	Leu 500	Lys 515	Val 530
Gly 320	Gln 335	Asn 350	Leu 365	Lys 380	Tyr 395	Asp 410	Arg 425	Gly 440	Ile 455	Leu 470	Gln 485	Asn 500	Glu 515	Tyr 530	Arg 545
Glu 340	Leu 355	Arg 370	Gly 385	Ile 400	Ala 415	Phe 430	Asp 445	Thr 460	Met 475	Leu 490	Glu 505	Ser 520	Tyr 535	Ile 550	Thr 565
Asp 355	Ser 370	Val 385	Ala 400	Gly 415	Arg 430	His 445	Asp 460	Met 475	Asp 490	Ser 505	Leu 520	Ser 535	Asp 550	Arg 565	Trp 580
Leu 370	Lys 385	His 400	Lys 415	Thr 430	Ile 445	Thr 460	Phe 475	Glu 490	Glu 505	Ile 520	Ala 535	Gly 550	Lys 565	Gly 580	Lys 595
Asn 385	Gln 400	Leu 415	Thr 430	Phe 445	Asn 460	Gln 475	Ile 490	Ala 505	Leu 520	Glu 535	Ala 550	Glu 565	Ala 580	Arg 595	Tyr 610
Ala 400	Ala 415	Glu 430	Asp 445	Ala 460	Asp 475	Val 490	Thr 505	Leu 520	Gln 535	Leu 550	His 565	Leu 580	Lys 595	Met 610	Trp 625
Pro 415	Lys 430	Leu 445	Gln 460	Lys 475	His 490	Glu 505	Gly 520	Pro 535	Leu 550	Asn 565	Val 580	Ala 595	Arg 610	Asn 625	Ile 640
Glu 435	Met 450	Pro 465	Leu 480	Val 495	Pro 510	Val 525	Leu 540	Ser 555	Arg 570	Ile 585	Glu 600	Arg 615	Gly 630	Val 645	Val 660
Lys 450	Ile 465	Asp 480	Pro 495	Thr 510	Val 525	Leu 540	His 555	Asn 570	His 585	Ser 600	Gly 615	Leu 630	Ala 645	Gln 660	Gln 675
Arg 465	Leu 480	Thr 495	Glu 510	Leu 525	Glu 540	Gln 555	Lys 570	Ala 585	His 600	Glu 615	Leu 630	Ala 645	Gly 660	Glu 675	Ala 690
Phe 480	Asn 495	Leu 510	Ser 525	Ser 540	Pro 555	Lys 570	Gln 585	Leu 600	Gln 615	Thr 630	Ile 645	Leu 660	Phe 675	Glu 690	Lys 705
Gln 495	Gly 510	Ile 525	Lys 540	Pro 555	Leu 570	Lys 585	Lys 600	Thr 615	Pro 630	Gly 645	Gly 660	Ala 675	Pro 690	Ser	

Tyr Ser Gln Ile Glu Leu Arg Ile Met Ala His Leu Ser Arg Asp Lys
 610 615 620
 Gly Leu Leu Thr Ala Phe Ala Glu Gly Lys Asp Ile His Arg Ala Thr
 625 630 635 640
 Ala Ala Glu Val Phe Gly Leu Pro Leu Glu Ser Val Thr Asn Glu Gln
 645 650 655
 Arg Arg Ser Ala Lys Ala Ile Asn Phe Gly Leu Ile Tyr Gly Met Ser
 660 665 670
 Ala Phe Gly Leu Ser Arg Gln Leu Asn Ile Pro Arg Lys Glu Ser Gln
 675 680 685
 Lys Tyr Met Asp Leu Tyr Phe Glu Arg Tyr Pro Gly Val Leu Glu Tyr
 690 695 700
 Met Glu Arg Thr Arg Ala Gln Ala Lys Glu Lys Gly Tyr Val Glu Thr
 705 710 715 720
 Leu Asp Gly Arg Arg Leu Tyr Leu Pro Asp Ile Lys Ser Ser Asn Ala
 725 730 735
 Ala Arg Arg Ala Gly Ala Glu Arg Ala Ala Ile Asn Ala Pro Met Gln
 740 745 750
 Gly Thr Ala Ala Asp Ile Ile Lys Arg Ala Met Ile Ala Val Asp Ala
 755 760 765
 Trp Leu Glu Lys Glu Lys Pro Arg Val Lys Met Ile Met Gln Val His
 770 775 780
 Asp Glu Leu Val Phe Glu Val His Lys Asp Asp Leu Glu Thr Val Ser
 785 790 795 800
 Gln Lys Ile His Glu Leu Met Glu Asn Ser Met Lys Leu Asp Val Pro
 805 810 815
 Leu Leu Val Glu Val Gly Ser Gly Glu Asn Trp Asp Gln Ala His
 820 825 830

<210> 6081

<211> 86

<212> PRT

<213> Enterobacter cloacae

<400> 6081

Asn Ile Met Lys Lys Pro Thr Ser Ala Ala Gly Ala Lys Arg Pro Ala
 1 5 10 15
 Lys Ala Arg Arg Lys Thr Arg Glu Glu Leu Asn Gln Glu Ala Arg Asp
 20 25 30
 Arg Lys Arg Asp Lys Lys His Arg Gly His Ala Ala Gly Ser Arg Ala
 35 40 45
 Asn Gly Gly Gly Ala Pro Ser Ala Ser Gly Lys Arg Gln Pro Ala Glu
 50 55 60
 Lys Ile Leu Val Ser Ala Ile Lys Thr Pro Ile Gln Leu Gly Arg Glu
 65 70 75 80
 Arg His Pro Gly His
 85

<210> 6082

<211> 157

<212> PRT

<213> Enterobacter cloacae

<400> 6082

Cys Phe His Pro Ser Val Ala Ser Phe Thr His Lys Phe Ile Thr Gly
 1 5 10 15
 Thr Asp Ile Met Val Gln Ile Pro Glu Asn Pro Leu Ile Leu Val Asp
 20 25 30
 Gly Ser Ser Tyr Leu Tyr Arg Ala Tyr His Ala Phe Pro Pro Leu Thr
 35 40 45
 Asn Ser Ala Gly Glu Pro Thr Gly Ala Met Tyr Gly Val Leu Asn Met

50		55		60	
Leu Arg Ser Leu Ile Leu Gln Tyr His Pro Thr His Ala Ala Val Val					
65		70		75	80
Phe Asp Ala Lys Gly Lys Thr Phe Arg Asp Glu Leu Phe Glu His Tyr					
	85		90		95
Lys Ser His Arg Pro Pro Met Pro Asp Asp Leu Arg Ala Gln Ile Glu					
	100		105		110
Pro Leu His Ala Met Val Lys Ala Met Gly Leu Pro Leu Leu Ala Val					
	115		120		125
Ser Gly Val Glu Ala Asp Asp Val Ile Gly Thr Leu Ala Arg Glu Ala					
	130		135		140
Glu Lys Ser Lys Pro Pro Gly Ser Asp Gln Tyr Arg					
145		150		155	

<210> 6083

<211> 221

<212> PRT

<213> Enterobacter cloacae

<400> 6083

Ser Pro Gln Ile Thr Ile Phe Gly Asp Asp His Val Thr Thr Trp Asn		
1	5	10
Tyr Gln Gln Thr His Phe Val Thr Ser Ala Pro Asp Ile Arg His Leu		
	20	25
Pro Ser Asp Thr Gly Ile Glu Val Ala Phe Ala Gly Arg Ser Asn Ala		
	35	40
Gly Lys Ser Ser Ala Leu Asn Thr Leu Thr Asn Gln Lys Asn Leu Ala		
	50	55
Arg Thr Ser Lys Thr Pro Gly Arg Thr Gln Leu Ile Asn Leu Phe Glu		
65	70	75
Val Ala Glu Gly Lys Arg Leu Val Asp Leu Pro Gly Tyr Gly Tyr Ala		
	85	90
Gln Val Pro Glu Glu Met Lys Ile Lys Trp Gln Arg Ala Leu Gly Glu		
	100	105
Tyr Leu Glu Lys Arg Met Cys Leu Lys Gly Leu Val Val Leu Met Asp		
	115	120
Ile Arg His Pro Leu Lys Asp Leu Asp Gln Gln Met Ile Asp Trp Ala		
	130	135
Val Ala Ser Asp Ile Ala Val Leu Val Leu Thr Lys Ala Asp Lys		
145	150	155
Leu Ala Ser Gly Ala Arg Lys Ala Gln Val Asn Lys Val Arg Glu Ala		
	165	170
Val Leu Ala Phe Asn Gly Asp Val Gln Val Glu Pro Phe Ser Ser Leu		
	180	185
Lys Lys Gln Gly Val Asp Lys Leu Arg Gln Lys Leu Asp Ser Trp Phe		
	195	200
Asn Asp Leu Glu Pro Ala Thr Glu Ala Glu Ala Glu		
210	215	220

<210> 6084

<211> 216

<212> PRT

<213> Enterobacter cloacae

<400> 6084

Thr Arg Trp Ile Phe Ala Gly Val Val Lys Thr Gly Glu Thr Leu Asp	
1	5
Asn Glu Leu Leu Asp Glu Leu Ser His Ser Pro Glu Met Gln Gln Thr	
	20
Trp Glu Ser Tyr His Leu Ile Arg Asp Thr Leu Arg Gly Asp Thr Ser	
	35
	40
	45

Glu	Val	Leu	His	Phe	Asp	Ile	Ser	Ala	Arg	Val	Met	Ala	Ala	Ile	Glu
50						55					60				
Asn	Glu	Pro	Val	His	Gln	Thr	Thr	Pro	Leu	Ile	Pro	Glu	Ala	Gln	Pro
65					70					75					80
Ala	Pro	His	Gln	Trp	Gln	Lys	Met	Pro	Phe	Trp	His	Lys	Val	Arg	Pro
				85					90					95	
Trp	Ala	Ser	Gln	Leu	Thr	Gln	Met	Gly	Val	Ala	Ala	Cys	Val	Ser	Leu
			100					105					110		
Ala	Val	Ile	Val	Gly	Val	Gln	His	Tyr	Asn	Thr	Gln	Ser	Glu	Ala	Asn
		115					120					125			
Gln	Gln	Pro	Glu	Ala	Pro	Val	Phe	Asn	Thr	Leu	Pro	Met	Met	Gly	Lys
		130					135				140				
Ala	Ser	Pro	Val	Ser	Leu	Gly	Val	Pro	Ala	Asp	Ala	Ser	Ala	Ser	Gly
145					150					155					160
Gly	Gln	Gln	Gln	Gln	Val	Gln	Glu	Gln	Arg	Arg	Arg	Ile	Asn	Ala	Met
				165					170					175	
Leu	Gln	Asp	Tyr	Glu	Leu	Gln	Arg	Arg	Leu	His	Ser	Glu	Gln	Leu	Gln
		180						185					190		
Phe	Glu	Gln	Ala	Gln	Thr	Gln	Gln	Ala	Ala	Val	Gln	Val	Pro	Gly	Asn
		195					200					205			
Gln	Thr	Leu	Gly	Thr	Gln	Ser	Gln								
		210				215									

<210> 6085

<211> 544

<212> PRT

<213> Enterobacter cloacae

<400> 6085

Leu	Phe	Asn	Tyr	Met	Lys	Asn	Ile	Arg	Asn	Phe	Ser	Ile	Ile	Ala	His
1				5					10					15	
Ile	Asp	His	Gly	Lys	Ser	Thr	Leu	Ser	Asp	Arg	Ile	Ile	Gln	Ile	Cys
			20					25					30		
Gly	Gly	Leu	Ser	Asp	Arg	Glu	Met	Ala	Ala	Gln	Val	Leu	Asp	Ser	Met
		35				40						45			
Asp	Leu	Glu	Arg	Glu	Arg	Gly	Ile	Thr	Ile	Lys	Ala	Gln	Ser	Val	Thr
	50					55					60				
Leu	Asp	Tyr	Lys	Ala	Ser	Asp	Gly	Glu	Thr	Tyr	Gln	Leu	Asn	Phe	Ile
65					70					75					80
Asp	Thr	Pro	Gly	His	Val	Asp	Phe	Ser	Tyr	Glu	Val	Ser	Arg	Ser	Leu
				85					90					95	
Ala	Ala	Cys	Glu	Gly	Ala	Leu	Leu	Val	Val	Asp	Ala	Gly	Gln	Gly	Val
			100					105					110		
Glu	Ala	Gln	Thr	Leu	Ala	Asn	Cys	Tyr	Thr	Ala	Met	Glu	Met	Asp	Leu
		115					120					125			
Glu	Val	Val	Pro	Val	Leu	Asn	Lys	Ile	Asp	Leu	Pro	Ala	Ala	Asp	Pro
		130					135				140				
Glu	Arg	Val	Ala	Glu	Glu	Ile	Glu	Asp	Ile	Val	Gly	Ile	Asp	Ala	Thr
145					150					155					160
Asp	Ala	Val	Arg	Cys	Ser	Ala	Lys	Thr	Gly	Val	Gly	Val	Pro	Asp	Val
				165					170					175	
Leu	Glu	Arg	Leu	Val	Arg	Asp	Ile	Pro	Pro	Pro	Glu	Gly	Asp	Pro	Asp
			180					185					190		
Ala	Pro	Leu	Gln	Ala	Leu	Ile	Ile	Asp	Ser	Trp	Phe	Asp	Asn	Tyr	Leu
		195					200					205			
Gly	Val	Val	Ser	Leu	Val	Arg	Ile	Lys	Asn	Gly	Thr	Met	Arg	Lys	Gly
		210					215				220				
Asp	Lys	Ile	Lys	Val	Met	Ser	Thr	Gly	Gln	Val	Tyr	Asn	Ala	Asp	Arg
225					230					235					240
Leu	Gly	Ile	Phe	Thr	Pro	Lys	Gln	Val	Asp	Arg	Thr	Glu	Leu	Lys	Cys
				245					250					255	

Gly	Glu	Val	Gly	Trp	Leu	Val	Cys	Ala	Ile	Lys	Asp	Ile	Leu	Gly	Ala
			260					265					270		
Pro	Val	Gly	Asp	Thr	Leu	Thr	Gly	Ala	Arg	Asn	Pro	Ala	Asp	Lys	Ala
		275					280					285			
Leu	Pro	Gly	Phe	Lys	Lys	Val	Lys	Pro	Gln	Val	Tyr	Ala	Gly	Leu	Phe
	290					295					300				
Pro	Val	Ser	Ser	Asp	Asp	Tyr	Glu	Asn	Phe	Arg	Asp	Ala	Leu	Gly	Lys
305				310						315					320
Leu	Ser	Leu	Asn	Asp	Ala	Ser	Leu	Phe	Tyr	Glu	Pro	Glu	Ser	Ser	Thr
			325						330					335	
Ala	Leu	Gly	Phe	Gly	Phe	Arg	Cys	Gly	Phe	Leu	Gly	Leu	Leu	His	Met
			340					345					350		
Glu	Ile	Ile	Gln	Glu	Arg	Leu	Glu	Arg	Glu	Tyr	Asp	Leu	Asp	Leu	Ile
		355					360					365			
Thr	Thr	Ala	Pro	Thr	Val	Val	Tyr	Glu	Val	Glu	Thr	Thr	Ser	Lys	Glu
		370				375					380				
Val	Ile	Tyr	Val	Asp	Ser	Pro	Ser	Lys	Leu	Pro	Pro	Leu	Asn	Asn	Ile
385				390						395					400
Gln	Glu	Leu	Arg	Glu	Pro	Ile	Ala	Glu	Cys	His	Met	Leu	Leu	Pro	Gln
			405					410						415	
Glu	Phe	Leu	Gly	Asn	Val	Ile	Thr	Leu	Cys	Ile	Glu	Lys	Arg	Gly	Val
			420					425					430		
Gln	Thr	Asn	Met	Val	Tyr	His	Gly	Asn	Gln	Val	Ala	Leu	Thr	Tyr	Glu
		435					440					445			
Ile	Pro	Met	Ala	Glu	Val	Val	Leu	Asp	Phe	Phe	Asp	Arg	Leu	Lys	Ser
	450					455					460				
Thr	Ser	Arg	Gly	Tyr	Ala	Ser	Leu	Asp	Tyr	Asn	Phe	Lys	Arg	Phe	Gln
465				470						475					480
Ala	Ser	Asn	Met	Val	Arg	Val	Asp	Val	Leu	Ile	Asn	Gly	Glu	Arg	Val
			485					490						495	
Asp	Ala	Leu	Ala	Leu	Ile	Thr	His	Asn	Asp	Asn	Ala	Pro	Tyr	Arg	Gly
			500					505					510		
Arg	Glu	Leu	Val	Glu	Lys	Met	Lys	Asp	Leu	Ile	Pro	Arg	Gln	Gln	Phe
		515					520					525			
Asp	Ile	Ala	Ser	Leu	His	Thr	Arg	Leu	Ala	Gly	Ser	Ala	Leu	Arg	Tyr
	530					535						540			

<210> 6086

<211> 164

<212> PRT

<213> Enterobacter cloacae

<400> 6086

Ile	Gln	Gly	Cys	Ala	Met	Ile	Lys	Glu	Trp	Ala	Thr	Val	Val	Ser	Trp
1			5					10						15	
Gln	Asp	Gly	Val	Ala	Leu	Val	Ser	Cys	Asp	Val	Lys	Ala	Ser	Cys	Ser
		20						25					30		
Ser	Cys	Ala	Ser	Arg	Ala	Gly	Cys	Gly	Ser	Arg	Val	Leu	Asn	Lys	Leu
		35					40					45			
Gly	Pro	Gln	Thr	Ser	His	Thr	Ile	Thr	Val	Pro	Ser	Ala	Gln	Pro	Leu
	50					55					60				
Val	Ala	Gly	Gln	Lys	Val	Glu	Leu	Gly	Ile	Ala	Glu	Gly	Ser	Leu	Leu
65					70					75					80
Thr	Ser	Ala	Met	Leu	Val	Tyr	Leu	Ser	Pro	Leu	Ala	Gly	Leu	Phe	Val
			85						90					95	
Met	Gly	Gly	Val	Phe	Gln	Met	Leu	Phe	Gly	Thr	Asp	Leu	Ala	Ala	Met
			100					105					110		
Cys	Gly	Ala	Ala	Leu	Gly	Gly	Val	Gly	Gly	Phe	Trp	Leu	Ala	Lys	Gly
		115					120					125			
Val	Ser	Pro	Arg	Leu	Ala	Ala	Arg	Glu	Ala	Trp	Gln	Pro	Val	Ile	Leu
	130					135						140			

Ser Val Ala Leu Ala Pro Asp Gln Leu Arg Val Glu Thr Leu Ser Ser
 145 150 155 160
 Lys Ala Arg

<210> 6087

<211> 341

<212> PRT

<213> Enterobacter cloacae

<400> 6087

Ala Gly Pro Asn Pro Ala Gly Cys Cys Ala Gly Ala Arg Lys Pro Asn
 1 5 10 15
 Phe Arg Asn Ala Ile Ala Val Met Lys Gln Leu Trp Phe Ala Met Ser
 20 25 30
 Leu Met Ala Gly Ser Leu Phe Phe Ser Ala Asn Ala Ser Ala Asp Val
 35 40 45
 Ser Ser Gly Ala Leu Leu Gln Gln Met Asn Leu Ala Ser Gln Ser Leu
 50 55 60
 Asn Tyr Glu Leu Ala Phe Ile Ser Ile Asn Lys Gln Gly Val Glu Ser
 65 70 75 80
 Leu Arg Tyr Arg His Ala Arg Leu Asp Asn Gln Pro Leu Ala Gln Leu
 85 90 95
 Leu Gln Met Asp Gly Pro Arg Arg Glu Val Val Gln Arg Gly Asn Glu
 100 105 110
 Ile Ser Tyr Phe Glu Pro Gly Leu Glu Pro Phe Thr Leu Asn Gly Asp
 115 120 125
 Tyr Ile Val Asp Ser Leu Pro Ser Leu Ile Tyr Thr Asp Phe Lys Arg
 130 135 140
 Leu Ala Pro Tyr Tyr Asp Phe Ile Ser Val Gly Arg Thr Arg Ile Ala
 145 150 155 160
 Asp Arg Leu Cys Glu Val Ile Arg Val Val Ala Arg Asp Gly Thr Arg
 165 170 175
 Tyr Ser Tyr Ile Val Trp Ile Asp Ala Glu Thr Lys Leu Pro Met Arg
 180 185 190
 Val Asp Leu Leu Asp Arg Asp Gly Glu Thr Leu Glu Gln Phe Arg Val
 195 200 205
 Ile Ser Phe Asp Val Asn Ser Gln Val Gly Asn Ser Met Gln Tyr Leu
 210 215 220
 Ala Lys Ala Ser Leu Pro Pro Leu Leu Ser Val Pro Ala Gly Asp Ser
 225 230 235 240
 Val Asn Phe Asn Trp Val Pro Ser Trp Ile Pro Gln Gly Phe Ser Glu
 245 250 255
 Val Ser Ser Ser Arg Arg Gln Leu Pro Thr Ile Glu Thr Pro Val Glu
 260 265 270
 Ser Arg Leu Tyr Ser Asp Gly Leu Phe Ser Phe Ser Val Asn Ile Asn
 275 280 285
 Arg Ala Thr Ala Asn Ser Ser Glu Gln Met Leu Arg Thr Gly Arg Arg
 290 295 300
 Thr Val Ser Thr Thr Val Arg Asp Asn Ala Glu Ile Thr Ile Val Gly
 305 310 315 320
 Glu Leu Pro Pro Pro Thr Ala Lys Arg Ile Ser Asp Ser Ile Lys Phe
 325 330 335
 Arg Ala Ala Gln
 340

<210> 6088

<211> 81

<212> PRT

<213> Enterobacter cloacae

<400> 6088

Arg	Leu	Ser	Leu	Leu	Val	Gly	Arg	His	Leu	Lys	Ile	Tyr	Phe	Val	Phe
1			5						10					15	
Arg	Leu	Gln	Gln	Asn	Ala	Phe	Leu	His	Thr	Gly	Leu	His	Met	Arg	Leu
		20						25					30		
Arg	Lys	Leu	Lys	Leu	Lys	Asn	Phe	Arg	Gly	Tyr	Arg	Asn	Ser	Thr	Glu
	35					40						45			
Ile	Ile	Ile	Asp	Glu	Ser	Met	Thr	Gly	Ile	Val	Gly	Arg	Asn	Asp	Phe
	50					55					60				
Gly	Lys	Ser	Thr	Leu	Leu	Glu	Ala	Leu	Ala	Ile	Phe	Phe	Glu	Thr	Glu
65					70					75					80

<210> 6089

<211> 272

<212> PRT

<213> Enterobacter cloacae

<400> 6089

Asp	Ile	Thr	Ser	Glu	Asn	Leu	Asp	Ala	Arg	Leu	Glu	Arg	Thr	Arg	Val
1				5					10					15	
Pro	Ile	Glu	Leu	Glu	Gln	Leu	Val	Ile	Ser	Phe	Asn	His	Met	Ile	Gly
		20						25					30		
Lys	Ile	Glu	Asp	Val	Phe	Thr	Arg	Gln	Ala	Asn	Phe	Ser	Ala	Asp	Ile
	35					40						45			
Ala	His	Glu	Ile	Arg	Thr	Pro	Ile	Thr	Asn	Leu	Val	Thr	Gln	Thr	Asp
	50					55					60				
Ile	Ala	Leu	Ser	Gln	Asp	Arg	Thr	Gln	Arg	Glu	Leu	Glu	Asp	Val	Leu
65				70					75						80
Tyr	Ser	Ser	Leu	Glu	Glu	Tyr	Asn	Arg	Met	Thr	Lys	Met	Val	Ser	Asp
			85						90					95	
Met	Leu	Phe	Leu	Ala	Gln	Ala	Asp	Asn	Asn	Gln	Leu	Ile	Pro	Asp	Arg
			100					105					110		
Val	Met	Phe	Asp	Leu	Arg	Ala	Glu	Val	Met	Lys	Val	Phe	Glu	Phe	Phe
	115						120					125			
Glu	Ala	Trp	Ala	Glu	Glu	Arg	Asn	Ile	Thr	Leu	Lys	Phe	Asn	Gly	Met
	130					135					140				
Pro	Cys	Leu	Val	Glu	Gly	Asp	Pro	Gln	Met	Phe	Arg	Arg	Ala	Ile	Asn
145				150						155					160
Asn	Leu	Leu	Ser	Asn	Ala	Leu	Arg	Tyr	Thr	Pro	Glu	Gly	Gln	Ala	Ile
			165						170					175	
Thr	Val	Ser	Ile	Arg	Glu	Gln	Glu	Ser	Phe	Phe	Asp	Leu	Val	Ile	Glu
		180						185					190		
Asn	Pro	Gly	Lys	Pro	Ile	Pro	Glu	Glu	His	Leu	Ser	Arg	Leu	Phe	Asp
	195					200						205			
Arg	Phe	Tyr	Arg	Val	Asp	Pro	Ser	Arg	Gln	Arg	Lys	Gly	Glu	Gly	Ser
	210					215					220				
Gly	Ile	Gly	Leu	Ala	Ile	Val	Lys	Ser	Ile	Val	Glu	Ala	His	His	Gly
225					230					235					240
Arg	Val	Gln	Val	Glu	Ser	Asp	Val	His	Ser	Thr	Arg	Phe	Ile	Leu	Ser
			245						250					255	
Val	Pro	Arg	Leu	Glu	Lys	Met	Ile	Pro	Asp	Thr	Gln	Cys	Trp	Glu	
			260					265					270		

<210> 6090

<211> 148

<212> PRT

<213> Enterobacter cloacae

<400> 6090

Pro Asp Ile Trp Gln His Leu Cys Pro Leu Gln Gly His Phe Tyr Gln
 1 5 10 15
 Ile Leu Leu Gln Leu Thr Gly Ile Asn Ala Lys Arg Ile Phe Phe Met
 20 25 30
 Lys Ala Arg Asn Thr Leu Phe Ala Val Leu Met Leu Ser Leu Pro Ala
 35 40 45
 Ile Ser Ala Glu His Ser Glu Met Lys Met Thr Asp Met Ser Thr Ser
 50 55 60
 Ala Ser Ser Gln Glu Tyr Met Ala Gly Met Lys Asp Met His Asp Lys
 65 70 75 80
 Met Met Ala Ala Val Asn Glu Ser Asp Pro Asp Lys Ala Phe Ala Lys
 85 90 95
 Gly Met Val Ala His His Glu Gly Ala Ile Ala Met Ala Glu Thr Glu
 100 105 110
 Leu Lys Tyr Gly Lys Asp Pro Lys Met Arg Lys Leu Ala Gln Asp Ile
 115 120 125
 Ile Lys Ala Gln Lys Gly Glu Ile Glu Gln Met Asn Lys Trp Leu Asp
 130 135 140
 Ser Gln Lys
 145

<210> 6091

<211> 234

<212> PRT

<213> Enterobacter cloacae

<400> 6091

Phe Arg Thr Pro Ser Ala Gly Asn Lys Asp Leu Asn Asp Lys Asp Val
 1 5 10 15
 Ile Ser Leu Ser Cys Ser Lys Gln Lys Pro Phe Asp Ile Ile Ser Ala
 20 25 30
 Thr Tyr Gln Glu Gly Trp Ile Ala Leu Ser Ile Ser Gly Val Ser Gly
 35 40 45
 Arg Gln Glu Met Asn Ile Gln Ser Pro Pro Gly Glu Ile Asn Thr Ser
 50 55 60
 Glu Pro Val Ser Val Met Glu Leu Lys Thr Pro Val Val Leu Pro Arg
 65 70 75 80
 Thr Ser Leu Ile Lys Lys Trp Arg Val Ile Met Lys Asn Ile Val Leu
 85 90 95
 Ala Ser Leu Leu Gly Phe Gly Leu Ile Ser Ser Ala Trp Ala Thr Glu
 100 105 110
 Thr Val Asn Ile His Glu Arg Val Asn Asn Ala Gln Ala Pro Ala His
 115 120 125
 Gln Met Gln Ser Ala Ala Ala Pro Val Gly Ile Gln Gly Thr Ala Pro
 130 135 140
 Arg Met Ala Gly Met Asp Gln His Glu Gln Ala Ile Ile Ala His Glu
 145 150 155 160
 Thr Met Thr Asn Gly Ser Ala Asp Ala His Gln Lys Met Val Glu Ser
 165 170 175
 His Gln Arg Met Met Gly Ser Gln Thr Val Ser Pro Thr Gly Pro Ser
 180 185 190
 Lys Ser Leu Ala Ala Met Asn Glu His Glu Arg Ala Ala Val Ala His
 195 200 205
 Glu Phe Met Asn Asn Gly Gln Ser Gly Pro His Gln Ala Met Ala Glu
 210 215 220
 Ala His Arg Arg Met Leu Ser Ala Gly
 225 230

<210> 6092

<211> 132

<212> PRT

<213> Enterobacter cloacae

<400> 6092

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Leu Gly Arg Val Ala Cys Gly Leu Leu Leu Leu Ala Gly Cys Arg Cys
1      5      10      15
Cys Val Gly Phe Pro Gly Gly Ala Ala Leu Arg Leu Ala Val Arg Val
      20      25      30
Arg Phe Cys Arg Cys Phe Ala Gly Arg Leu Leu Arg Ala Leu Leu Pro
      35      40      45
Leu Leu Pro Ser Leu Ser Val Gly Ala Gly Gly Gly Leu Ala Pro Phe
      50      55      60
Phe Phe Ser Ala Cys Ala Leu Pro Phe Phe Leu Pro Ser Ser Ser Phe
65      70      75      80
Pro Ser Leu Pro Tyr Ser Val Tyr Thr Ile Asp Glu His Leu Asp Met
      85      90      95
Leu Met Val Cys His His Leu Asp Pro Asp Ile Ala Glu Asp Val Ala
      100     105     110
Phe Ala Glu Ser Arg Ile Arg Arg Glu Thr Ile Ala Ala Glu Asp Val
      115     120     125
Leu His Asp Ile
      130

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<210> 6093

<211> 256

<212> PRT

<213> Enterobacter cloacae

<220>

<221>UNSURE

<222>(45)

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<221>UNSURE

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<221> UNSURE

<222> (57)

<220>

<221> UNSURE

<222> (58)

<400> 6093

Arg	Tyr	Arg	Thr	Pro	Leu	Pro	Ala	Leu	Pro	Arg	Thr	Tyr	Gln	Tyr	Ala
1				5					10					15	
Arg	Pro	Leu	Phe	Leu	His	Ala	Gly	Arg	Thr	Gly	Asp	Gln	Arg	Thr	Ser
			20					25				30			
Glu	Thr	Ile	Lys	Arg	Gly	Val	Arg	Gly	Arg	Lys	Arg	Xaa	Xaa	Xaa	Xaa
		35					40				45				
Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Xaa	Leu	Ala	Ala	Pro	Gly	Ser
	50					55				60					
Arg	Ser	Met	Gln	Glu	Trp	Arg	Pro	Ala	Arg	Arg	Arg	Arg	Ala	His	Arg
65					70				75					80	
Ala	Arg	Phe	Val	Val	Gln	Thr	Tyr	Val	Gly	Pro	Phe	Glu	Phe	Gly	Leu
				85					90					95	
Asp	Ser	Val	Thr	Leu	Leu	Pro	Tyr	Ser	Cys	Thr	Glu	Ser	Ser	Asp	Met
			100					105					110		
Glu	Asn	Asn	Leu	Glu	Asn	Leu	Thr	Ile	Gly	Val	Phe	Ala	Lys	Ala	Ala
		115					120					125			
Gly	Val	Asn	Val	Glu	Thr	Ile	Arg	Phe	Tyr	Gln	Arg	Lys	Gly	Leu	Leu
	130					135				140					
Arg	Glu	Pro	Asp	Lys	Pro	Tyr	Gly	Ser	Ile	Arg	Arg	Tyr	Gly	Glu	Ala
145					150				155					160	
Asp	Val	Val	Arg	Val	Lys	Phe	Val	Lys	Ser	Ala	Gln	Arg	Leu	Gly	Phe
				165				170						175	
Ser	Leu	Asp	Glu	Ile	Ala	Glu	Leu	Leu	Arg	Leu	Asp	Asp	Gly	Thr	His
			180					185					190		
Cys	Glu	Glu	Ala	Ser	Ser	Leu	Ala	Glu	His	Lys	Leu	Lys	Asp	Val	Arg
		195					200					205			
Glu	Lys	Met	Ala	Asp	Leu	Ala	Arg	Met	Glu	Thr	Val	Leu	Ser	Glu	Leu
	210					215					220				
Val	Cys	Ala	Cys	His	Ala	Arg	Lys	Gly	Asn	Val	Ser	Cys	Pro	Leu	Ile
225					230				235					240	
Ala	Ser	Leu	Gln	Gly	Glu	Ala	Gly	Leu	Ala	Arg	Ser	Ala	Met	Pro	
				245					250					255	

<210> 6094

<211> 117

<212> PRT

<213> Enterobacter cloacae

<400> 6094

Ala	Phe	Ile	Arg	Arg	Thr	Ile	Met	Glu	Asn	Ile	Ala	Leu	Ile	Gly	Ile
1				5					10					15	
Asp	Leu	Gly	Lys	Asn	Ser	Phe	His	Ile	His	Cys	Gln	Asp	Arg	Arg	Gly
			20					25					30		
Lys	Ala	Val	Tyr	Arg	Lys	Lys	Phe	Thr	Arg	Pro	Lys	Leu	Ile	Glu	Phe
		35					40					45			
Leu	Ala	Thr	Cys	Pro	Ala	Thr	Thr	Ile	Ala	Met	Glu	Ala	Cys	Gly	Gly
	50					55					60				
Ser	His	Phe	Met	Ala	Arg	Lys	Leu	Glu	Glu	Leu	Gly	His	Phe	Pro	Lys
65					70					75					80
Leu	Ile	Ser	Pro	Gln	Phe	Val	Arg	Pro	Phe	Val	Asn	Tyr	Ile	Lys	Asn
				85					90					95	
Asp	Phe	Val	Asp	Ala	Glu	Ala	Ile	Cys	Glu	Ala	Ala	Ser	Arg	Pro	Ser
			100					105					110		
Met	Arg	Phe	Val	His											
			115												

<210> 6095

<211> 1074

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (1060)

<220>

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<221>UNSURE

<222>(1071)

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<221>UNSURE

<222>(1072)

<400> 6095

Pro	Lys	Ser	Arg	Ile	Lys	Met	Tyr	Leu	Lys	Ser	Asn	Ile	Gly	Gln	Leu
1				5				10						15	
Met	Ser	Ile	Ile	Thr	Asn	Leu	Arg	Phe	Asn	Arg	His	Ile	Asn	Val	Thr
			20					25					30		
Val	Leu	Arg	Cys	Pro	Ile	Ile	Tyr	Asn	Ile	Ser	Tyr	Gly	Trp	Lys	Asn
		35					40					45			
Val	Thr	Lys	Cys	Pro	Ser	Gly	Arg	Glu	Ala	Asp	Met	Pro	Val	Asp	Phe
		50				55					60				
Leu	Thr	Thr	Glu	Gln	Thr	Glu	Ser	Tyr	Gly	Arg	Phe	Thr	Gly	Glu	Pro
65					70					75					80
Asp	Glu	Leu	Gln	Leu	Ala	Arg	Tyr	Phe	His	Leu	Asp	Glu	Ala	Asp	Lys
				85					90					95	
Glu	Phe	Ile	Gly	Lys	Ser	Arg	Gly	Asp	His	Asn	Arg	Leu	Gly	Ile	Ala
			100					105					110		
Leu	Gln	Ile	Gly	Cys	Val	Arg	Phe	Leu	Gly	Thr	Phe	Leu	Thr	Asp	Met
		115					120					125			
Asn	His	Ile	Pro	Ser	Gly	Val	Arg	His	Phe	Thr	Ala	Arg	Gln	Leu	Gly
		130				135					140				
Ile	Arg	Asp	Ile	Thr	Val	Leu	Ala	Glu	Tyr	Gly	Gln	Arg	Glu	Asn	Thr
145					150					155					160
Arg	Arg	Glu	His	Ala	Ala	Leu	Ile	Arg	Gln	His	Tyr	Gln	Tyr	Arg	Glu
			165					170						175	
Phe	Ala	Trp	Pro	Trp	Thr	Phe	Arg	Leu	Thr	Arg	Leu	Leu	Tyr	Thr	Arg
			180					185					190		
Ser	Trp	Ile	Ser	Asn	Glu	Arg	Pro	Gly	Leu	Leu	Phe	Asp	Leu	Ala	Thr
		195					200					205			
Gly	Trp	Leu	Met	Gln	His	Arg	Ile	Ile	Leu	Pro	Gly	Ala	Thr	Thr	Leu
		210				215					220				
Thr	Arg	Leu	Ile	Ser	Glu	Val	Arg	Glu	Lys	Ala	Thr	Leu	Arg	Leu	Trp
225					230					235					240
Asn	Lys	Leu	Ala	Leu	Ile	Pro	Ser	Ala	Glu	Gln	Arg	Ser	Gln	Leu	Glu
			245						250					255	
Met	Leu	Leu	Gly	Pro	Thr	Asp	Cys	Ser	Arg	Leu	Ser	Leu	Leu	Glu	Ser
			260					265					270		
Leu	Lys	Lys	Gly	Pro	Val	Thr	Ile	Ser	Gly	Pro	Ala	Phe	Asn	Glu	Ala
		275					280					285			
Ile	Glu	Arg	Trp	Lys	Thr	Leu	Asn	Asp	Phe	Gly	Leu	His	Ala	Glu	Asn
		290				295					300				
Leu	Ser	Thr	Leu	Pro	Ala	Val	Arg	Leu	Lys	Asn	Leu	Ala	Arg	Tyr	Ala
305					310					315					320
Gly	Met	Thr	Ser	Val	Phe	Asn	Ile	Ala	Arg	Met	Ser	Pro	Gln	Lys	Arg
			325						330					335	
Met	Ala	Val	Leu	Val	Ala	Phe	Val	Leu	Ala	Trp	Glu	Thr	Leu	Ala	Leu
			340					345					350		
Asp	Asp	Ala	Leu	Asp	Val	Leu	Asp	Ala	Met	Leu	Ala	Val	Ile	Ile	Arg
		355					360					365			

Asp	Ala	Arg	Lys	Ile	Gly	Gln	Lys	Lys	Arg	Leu	Arg	Ser	Leu	Lys	Asp
370						375					380				
Leu	Asp	Lys	Ser	Ala	Leu	Ala	Leu	Ala	Ser	Ala	Cys	Ser	Tyr	Leu	Leu
385					390					395					400
Lys	Glu	Glu	Thr	Pro	Asp	Glu	Ser	Ile	Arg	Ala	Glu	Val	Phe	Ser	Tyr
				405					410					415	
Ile	Pro	Arg	Gln	Lys	Leu	Ala	Glu	Ile	Ile	Thr	Leu	Val	Arg	Glu	Ile
			420					425					430		
Ala	Arg	Pro	Ser	Asp	Asp	Asn	Phe	His	Glu	Glu	Met	Val	Glu	Gln	Tyr
		435					440					445			
Gly	Arg	Val	Arg	Arg	Phe	Leu	Pro	His	Leu	Leu	Asn	Thr	Val	Lys	Phe
	450					455					460				
Ser	Ser	Ala	Pro	Ala	Gly	Val	Thr	Thr	Leu	Asn	Ala	Cys	Asp	Tyr	Leu
465					470					475					480
Ser	Arg	Glu	Phe	Ser	Ser	Arg	Arg	Gln	Phe	Phe	Asp	Asp	Ala	Pro	Thr
				485					490					495	
Glu	Ile	Ile	Ser	Arg	Ser	Trp	Lys	Arg	Leu	Val	Ile	Asn	Lys	Glu	Lys
			500					505					510		
His	Ile	Thr	Arg	Arg	Gly	Tyr	Thr	Leu	Cys	Phe	Leu	Ser	Lys	Leu	Gln
		515					520						525		
Asp	Ser	Leu	Arg	Arg	Arg	Asp	Val	Tyr	Val	Thr	Gly	Ser	Asn	Arg	Trp
	530					535					540				
Gly	Asp	Pro	Arg	Ala	Arg	Leu	Leu	Gln	Gly	Ala	Asp	Trp	Gln	Ala	Asn
545					550					555					560
Arg	Ile	Lys	Val	Tyr	Arg	Ser	Leu	Gly	His	Pro	Thr	Asp	Pro	Gln	Glu
				565					570					575	
Ala	Ile	Lys	Ser	Leu	Gly	His	Gln	Leu	Asp	Ser	Arg	Tyr	Arg	Gln	Val
			580					585					590		
Ala	Ala	Arg	Leu	Cys	Glu	Asn	Glu	Ala	Val	Glu	Leu	Asp	Val	Ser	Gly
		595					600					605			
Pro	Lys	Pro	Arg	Leu	Thr	Ile	Ser	Pro	Leu	Ala	Ser	Leu	Asp	Glu	Pro
	610					615					620				
Asp	Ser	Leu	Lys	Arg	Leu	Ser	Lys	Met	Ile	Ser	Asp	Leu	Leu	Pro	Pro
625					630					635					640
Val	Asp	Leu	Thr	Glu	Leu	Leu	Leu	Glu	Ile	Asn	Ala	His	Thr	Gly	Phe
				645					650					655	
Ala	Asp	Glu	Phe	Phe	His	Ala	Ser	Glu	Ala	Ser	Ala	Arg	Val	Asp	Asp
			660					665					670		
Leu	Pro	Val	Ser	Ile	Ser	Ala	Val	Leu	Met	Ala	Glu	Ala	Cys	Asn	Ile
		675					680					685			
Gly	Leu	Glu	Pro	Leu	Ile	Arg	Ser	Asn	Val	Pro	Ala	Leu	Thr	Arg	His
	690					695					700				
Arg	Leu	Asn	Trp	Thr	Lys	Ala	Asn	Tyr	Leu	Arg	Ala	Glu	Thr	Ile	Thr
705					710					715					720
Ser	Ala	Asn	Ala	Arg	Leu	Val	Asp	Phe	Gln	Ala	Thr	Leu	Pro	Leu	Ala
				725					730					735	
Gln	Ile	Trp	Gly	Gly	Gly	Glu	Val	Ala	Ser	Ala	Asp	Gly	Met	Arg	Phe
			740					745					750		
Val	Thr	Pro	Val	Arg	Thr	Ile	Asn	Ala	Gly	Pro	Asn	Arg	Lys	Tyr	Phe
		755					760					765			
Gly	Asn	Asn	Arg	Gly	Ile	Thr	Trp	Tyr	Asn	Phe	Val	Ser	Asp	Gln	Tyr
	770					775					780				
Ser	Gly	Phe	His	Gly	Ile	Val	Ile	Pro	Gly	Thr	Leu	Arg	Asp	Ser	Ile
785					790					795					800
Phe	Val	Leu	Glu	Gly	Leu	Leu	Glu	Gln	Glu	Thr	Gly	Leu	Asn	Pro	Thr
				805					810					815	
Glu	Ile	Met	Thr	Asp	Thr	Ala	Gly	Ala	Ser	Glu	Leu	Val	Phe	Gly	Leu
			820				825						830		
Phe	Trp	Leu	Leu	Gly	Tyr	Gln	Phe	Ser	Pro	Arg	Leu	Ala	Asp	Ala	Gly
		835					840					845			
Ala	Ser	Val	Phe	Trp	Arg	Met	Asp	His	Asp	Ala	Asp	Tyr	Gly	Val	Leu

850	855	860
Asn Asp Ile Ala Arg Gly Gln Ser Asp Pro Arg Lys Ile Val Leu Gln		
865	870	875
Trp Asp Glu Met Ile Arg Thr Ala Gly Ser Leu Lys Leu Gly Lys Val		
	885	890
Gln Val Ser Val Leu Val Arg Ser Leu Leu Lys Ser Glu Arg Pro Ser		
	900	905
Gly Leu Thr Gln Ala Ile Ile Glu Val Gly Arg Ile Asn Lys Thr Leu		
	915	920
Tyr Leu Leu Asn Tyr Ile Asp Asp Glu Asp Tyr Arg Arg Arg Ile Leu		
	930	935
Thr Gln Leu Asn Arg Gly Glu Ser Arg His Ala Val Ala Arg Ala Ile		
945	950	955
Cys His Gly Gln Lys Gly Glu Ile Arg Lys Arg Tyr Thr Asp Gly Gln		
	965	970
Glu Asp Gln Leu Gly Thr Leu Gly Leu Val Thr Asn Ala Val Val Leu		
	980	985
Trp Asn Thr Ile Tyr Met Gln Ala Ala Leu Asp His Leu Arg Ala Gln		
	995	1000
Gly Glu Thr Leu Asn Asp Glu Asp Ile Ala Arg Leu Ser Pro Leu Cys		
1010	1015	1020
His Gly His Ile Asn Met Leu Gly His Tyr Ser Phe Thr Leu Ala Glu		
1025	1030	1035
Leu Val Thr Lys Gly His Leu Arg Pro Leu Lys Glu Ala Ser Glu Ala		
	1045	1050
Glu Asn Val Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa		
	1060	1065
		1070
Tyr		

<210> 6096

<211> 133

<212> PRT

<213> Enterobacter cloacae

<400> 6096

Arg Asp Gln Arg Ala Gly Asn Ile Pro Leu Ser Cys Met Ala Gly Ala	
1	5
His Glu Phe Arg Gln His Gly Phe His Ala Arg Gln Val Gly His Leu	
	20
Leu Ala His Val Leu Glu Leu Val Phe Gly Gln Ala Ala Gly Leu Leu	
	35
Ala Val Gly Ala Ile Val Glu Pro Gln Gln Leu Gly Asn Leu Val Gln	
	50
Thr Glu Pro Gln Pro Leu Cys Arg Phe His Glu Phe His Pro Asn His	
65	70
Val Arg Leu Pro Ile Ala Ala Asp Ala Ala Val Arg Leu Val Arg Phe	
	85
Pro Gln Gln Ala Leu Ala Leu Ile Glu Ala Asp Cys Leu His Val Asp	
	100
Pro Gly Arg Leu Gly Lys Asn Ala Asn Gly Gln Val Phe Gln Ile Ile	
	115
Phe His Ile Ala	
	120
	125
130	

<210> 6097

<211> 146

<212> PRT

<213> Enterobacter cloacae

<400> 6097

Arg Ala Arg Phe Phe Arg Arg Thr Ala Gly Ser Val Leu Arg Phe Ser
 1 5 10 15
 Ala Cys Arg Pro Lys Ser Phe Arg Val Phe Gln Arg Ser Ile Ala Ser
 20 25 30
 Leu Asn Ala Gly Pro Leu Met Val Thr Gly Pro Phe Phe Ser Asp Ser
 35 40 45
 Ser Lys Asp Arg Arg Leu Gln Ser Val Gly Pro Ser Ser Ile Ser Ser
 50 55 60
 Cys Glu Arg Cys Ser Ala Asp Gly Ile Ser Ala Ser Leu Phe His Arg
 65 70 75 80
 Arg Asn Val Ala Phe Ser Leu Thr Ser Glu Ile Asn Arg Val Ser Val
 85 90 95
 Val Ala Pro Gly Arg Ile Ile Arg Cys Ile Ser His Pro Val Ala
 100 105 110
 Arg Ser Lys Ser Arg Pro Gly Arg Ser Leu Leu Ile Gln Leu Arg Val
 115 120 125
 Tyr Lys Arg Arg Val Arg Arg Asn Val Gln Gly Gln Ala Asn Ser Arg
 130 135 140
 Tyr
 145

<210> 6098

<211> 213

<212> PRT

<213> Enterobacter cloacae

<400> 6098

Ile Ile Gly His Arg Lys Thr Val Thr Leu Ile Cys Leu Leu Asn Arg
 1 5 10 15
 Lys Phe Val Ile Ile Asp Met Ser Cys Pro Ile Phe Asp Leu Arg Tyr
 20 25 30
 Ile Phe Met Arg Leu Phe Gly Tyr Ala Arg Val Ser Thr Ser Gln Gln
 35 40 45
 Ser Leu Asp Leu Gln Val Arg Ala Leu Lys Asp Ala Gly Val Lys Ala
 50 55 60
 Asn Arg Ile Phe Thr Asp Lys Ala Ser Gly Ser Ser Thr Asp Arg Glu
 65 70 75 80
 Gly Leu Asp Leu Leu Arg Met Lys Val Glu Gly Asp Val Ile Leu
 85 90 95
 Val Lys Lys Leu Asp Arg Leu Gly Arg Asp Thr Ala Asp Met Ile Gln
 100 105 110
 Leu Ile Lys Glu Phe Asp Ala Gln Gly Val Ala Val Arg Phe Ile Asp
 115 120 125
 Asp Gly Ile Ser Thr Asp Gly Asp Met Gly Gln Met Val Val Thr Ile
 130 135 140
 Leu Ser Ala Val Ala Gln Ala Glu Arg Arg Arg Ile Leu Glu Arg Thr
 145 150 155 160
 Asn Glu Gly Arg Gln Glu Ala Lys Leu Lys Gly Ile Lys Phe Gly Gly
 165 170 175
 Pro Arg Gln Ala Tyr Arg Gly Gln Glu Arg Arg Ala Asp Ala Ser Ser
 180 185 190
 Glu Gly His Trp Cys Asn Gly Asn Cys Ser Ser Ala Gln Tyr Cys Pro
 195 200 205
 Leu His Gly Leu
 210

<210> 6099

<211> 99

<212> PRT

<213> Enterobacter cloacae

<400> 6099

Gly Ile Ala Asp Leu Ala Arg Pro Ala Ser Pro Cys Ser Asp Ala Ile
 1 5 10 15
 Asn Gly Gln Glu Thr Phe Pro Phe Arg Ala Trp Gln Ala His Thr Ser
 20 25 30
 Ser Asp Ser Thr Val Ser Met Arg Ala Lys Ser Ala Ile Phe Ser Arg
 35 40 45
 Thr Ser Leu Ser Leu Cys Ser Ala Arg Leu Leu Ala Ser Ser Gln Trp
 50 55 60
 Val Pro Ser Ser Ser Arg Asn Ser Ser Ala Ile Ser Ser Arg Leu Asn
 65 70 75 80
 Pro Ser Arg Cys Ala Asp Phe Thr Asn Phe Thr Arg Thr Thr Ser Ala
 85 90 95
 Ser Pro

<210> 6100

<211> 234

<212> PRT

<213> Enterobacter cloacae

<400> 6100

Leu Arg Leu Ala Asp Asn Pro Ser Ile Arg Leu Gln Ser Val Gln Gln
 1 5 10 15
 Val Phe Ser Ile Leu Asn Gln Glu Thr Glu Met Ser Tyr Ser Gly Glu
 20 25 30
 Arg Asp Asn Phe Ala Pro His Met Ala Leu Val Pro Met Val Ile Glu
 35 40 45
 Gln Thr Ser Arg Gly Glu Arg Ser Phe Asp Ile Tyr Ser Arg Leu Leu
 50 55 60
 Lys Glu Arg Val Ile Phe Leu Thr Gly Gln Val Glu Asp His Met Ala
 65 70 75 80
 Asn Leu Ile Val Ala Gln Met Leu Phe Leu Glu Ala Glu Asn Pro Glu
 85 90 95
 Lys Asp Ile Tyr Leu Tyr Ile Asn Ser Pro Gly Gly Val Ile Thr Ala
 100 105 110
 Gly Met Ser Ile Tyr Asp Thr Met Gln Phe Ile Lys Pro Asp Val Ser
 115 120 125
 Thr Ile Cys Met Gly Gln Ala Ala Ser Met Gly Ala Phe Leu Leu Thr
 130 135 140
 Ala Gly Ala Lys Gly Lys Arg Phe Cys Leu Pro Asn Ser Arg Val Met
 145 150 155 160
 Ile His Gln Pro Leu Gly Gly Tyr Gln Gly Gln Ala Thr Asp Ile Glu
 165 170 175
 Ile His Ala Arg Glu Ile Leu Lys Val Lys Ala Arg Met Asn Glu Leu
 180 185 190
 Met Ala Gln His Thr Gly Gln Pro Leu Glu Gln Ile Glu Arg Asp Thr
 195 200 205
 Glu Arg Asp Arg Phe Leu Ser Ala Pro Glu Ala Val Glu Tyr Gly Leu
 210 215 220
 Val Asp Ser Ile Leu Thr His Arg Asn
 225 230

<210> 6101

<211> 444

<212> PRT

<213> Enterobacter cloacae

<400> 6101

Glu Trp His Leu Arg Arg His Val Arg His Ile Glu Leu Lys Lys Arg
 1 5 10 15

Phe	Gly	Leu	Met	Thr	Asp	Lys	Arg	Lys	Asp	Gly	Ser	Gly	Lys	Leu	Leu
			20					25					30		
Tyr	Cys	Ser	Phe	Cys	Gly	Lys	Ser	Gln	His	Glu	Val	Arg	Lys	Leu	Ile
		35					40					45			
Ala	Gly	Pro	Ser	Val	Tyr	Ile	Cys	Asp	Glu	Cys	Val	Asp	Leu	Cys	Asn
	50					55					60				
Asp	Ile	Ile	Arg	Glu	Glu	Ile	Lys	Glu	Val	Ala	Pro	His	Arg	Glu	Arg
65				70						75					80
Ser	Ala	Leu	Pro	Thr	Pro	His	Glu	Ile	Arg	His	His	Leu	Asp	Asp	Tyr
				85					90					95	
Val	Ile	Gly	Gln	Glu	Gln	Ala	Lys	Lys	Val	Leu	Ala	Val	Ala	Val	Tyr
			100					105					110		
Asn	His	Tyr	Lys	Arg	Leu	Arg	Asn	Gly	Asp	Thr	Ser	Asn	Gly	Val	Glu
		115					120					125			
Leu	Gly	Lys	Ser	Asn	Ile	Leu	Leu	Ile	Gly	Pro	Thr	Gly	Ser	Gly	Lys
	130					135						140			
Thr	Leu	Leu	Ala	Glu	Thr	Leu	Ala	Arg	Leu	Leu	Asp	Val	Pro	Phe	Thr
145					150						155				160
Met	Ala	Asp	Ala	Thr	Leu	Thr	Glu	Ala	Gly	Tyr	Val	Gly	Glu	Asp	
			165					170						175	
Val	Glu	Asn	Ile	Gln	Lys	Leu	Leu	Gln	Lys	Cys	Asp	Tyr	Asp	Val	
			180				185					190			
Gln	Lys	Ala	Gln	Arg	Gly	Ile	Val	Tyr	Ile	Asp	Glu	Ile	Asp	Lys	Ile
		195					200					205			
Ser	Arg	Lys	Ser	Asp	Asn	Pro	Ser	Ile	Thr	Arg	Asp	Val	Ser	Gly	Glu
	210				215						220				
Gly	Val	Gln	Gln	Ala	Leu	Leu	Lys	Leu	Ile	Glu	Gly	Thr	Val	Ala	Ala
225					230					235					240
Val	Pro	Pro	Gln	Gly	Arg	Lys	His	Pro	Gln	Gln	Glu	Phe	Leu	Gln	
			245					250					255		
Val	Asp	Thr	Ser	Lys	Ile	Leu	Phe	Ile	Cys	Gly	Gly	Ala	Phe	Ala	Gly
			260					265					270		
Leu	Asp	Lys	Val	Ile	Ser	His	Arg	Val	Glu	Thr	Gly	Ser	Gly	Ile	Gly
		275					280					285			
Phe	Gly	Ala	Thr	Val	Lys	Ala	Thr	Ser	Glu	Lys	Pro	Asn	Glu	Gly	Gln
	290				295						300				
Leu	Leu	Ala	Gln	Val	Glu	Pro	Glu	Asp	Leu	Ile	Lys	Phe	Gly	Leu	Ile
305					310					315					320
Pro	Glu	Phe	Ile	Gly	Arg	Leu	Pro	Val	Val	Ala	Thr	Leu	Asn	Glu	Leu
			325						330					335	
Ser	Glu	Asp	Ala	Leu	Ile	Gln	Ile	Leu	Lys	Glu	Pro	Lys	Asn	Ala	Leu
			340					345					350		
Thr	Lys	Gln	Tyr	Gln	Ala	Leu	Phe	Asn	Leu	Glu	Gly	Val	Glu	Leu	Glu
		355					360					365			
Phe	Arg	Asp	Glu	Ala	Leu	Asp	Ala	Ile	Ala	Lys	Lys	Ala	Met	Ala	Arg
	370				375						380				
Lys	Thr	Gly	Ala	Arg	Gly	Leu	Arg	Ser	Ile	Val	Glu	Ala	Ala	Leu	Leu
385					390					395					400
Asp	Thr	Met	Tyr	Asp	Leu	Pro	Ser	Met	Glu	Asp	Val	Glu	Lys	Val	Val
			405						410					415	
Ile	Asp	Glu	Ser	Val	Ile	Gly	Gly	Gln	Thr	Lys	Pro	Leu	Leu	Ile	Tyr
			420					425					430		
Gly	Lys	Pro	Glu	Ala	Gln	Gln	Ala	Ser	Gly	Glu					
		435					440								

<210> 6102

<211> 565

<212> PRT

<213> Enterobacter cloacae

<400> 6102

Pro	Val	Tyr	Leu	Ala	Asp	Thr	Lys	Leu	Arg	Glu	Ser	Ser	Met	Asn	Pro
1				5					10					15	
Glu	Arg	Ser	Glu	Arg	Ile	Glu	Ile	Pro	Val	Leu	Pro	Leu	Arg	Asp	Val
			20					25					30		
Val	Val	Tyr	Pro	His	Met	Val	Ile	Pro	Leu	Phe	Val	Gly	Arg	Glu	Lys
		35					40					45			
Ser	Ile	Arg	Cys	Leu	Glu	Ala	Ala	Met	Asp	His	Asp	Lys	Lys	Ile	Met
	50					55				60					
Leu	Val	Ala	Gln	Lys	Glu	Ala	Ser	Thr	Asp	Glu	Pro	Gly	Val	Asn	Asp
65					70					75				80	
Leu	Phe	Thr	Val	Gly	Thr	Val	Ala	Ser	Ile	Leu	Gln	Met	Leu	Lys	Leu
				85					90					95	
Pro	Asp	Gly	Thr	Val	Lys	Val	Leu	Val	Glu	Gly	Leu	Gln	Arg	Ala	Arg
			100					105					110		
Ile	Thr	Thr	Leu	Ser	Asp	Asp	Gly	Glu	His	Phe	Ser	Ala	Lys	Ala	Glu
		115					120					125			
Tyr	Leu	Asp	Ser	Pro	Glu	Leu	Asp	Glu	Arg	Glu	Gln	Glu	Val	Leu	Val
	130					135					140				
Arg	Thr	Ala	Ile	Ser	Gln	Phe	Glu	Gly	Tyr	Ile	Lys	Leu	Asn	Lys	Lys
145					150					155					160
Ile	Pro	Pro	Glu	Val	Leu	Thr	Ser	Leu	Asn	Ser	Ile	Asp	Asp	Pro	Ala
				165					170					175	
Arg	Leu	Ala	Asp	Thr	Ile	Ala	Ala	His	Met	Pro	Leu	Lys	Leu	Ala	Asp
			180					185					190		
Lys	Gln	Ser	Val	Leu	Glu	Met	Ser	Asp	Val	Asn	Glu	Arg	Leu	Glu	Tyr
		195					200				205				
Leu	Met	Ala	Met	Met	Glu	Ser	Glu	Ile	Asp	Leu	Leu	Gln	Val	Glu	Lys
	210					215					220				
Arg	Ile	Arg	Asn	Arg	Val	Lys	Lys	Gln	Met	Glu	Lys	Ser	Gln	Arg	Glu
225					230					235					240
Tyr	Tyr	Leu	Asn	Glu	Gln	Met	Lys	Ala	Ile	Gln	Lys	Glu	Leu	Gly	Glu
			245						250					255	
Met	Asp	Asp	Ala	Pro	Asp	Glu	Asn	Glu	Ala	Leu	Lys	Arg	Lys	Ile	Asp
			260					265					270		
Ala	Ala	Lys	Met	Pro	Lys	Glu	Ala	Lys	Glu	Lys	Ala	Glu	Ala	Glu	Leu
		275					280					285			
Gln	Lys	Leu	Lys	Met	Met	Ser	Pro	Met	Ser	Ala	Glu	Ala	Thr	Val	Val
	290					295					300				
Arg	Gly	Tyr	Ile	Glu	Trp	Met	Val	Gln	Val	Pro	Trp	Asn	Ala	Arg	Ser
305					310					315					320
Lys	Val	Lys	Lys	Asp	Leu	Arg	Gln	Ala	Gln	Glu	Ile	Leu	Asp	Thr	Asp
			325						330					335	
His	Tyr	Gly	Leu	Glu	Arg	Val	Lys	Asp	Arg	Ile	Leu	Glu	Tyr	Leu	Ala
			340					345					350		
Val	Gln	Ser	Arg	Val	Asn	Lys	Ile	Lys	Gly	Pro	Ile	Leu	Cys	Leu	Val
		355					360					365			
Gly	Pro	Pro	Gly	Val	Gly	Lys	Thr	Ser	Leu	Gly	Gln	Ser	Ile	Ala	Lys
	370					375					380				
Ala	Thr	Gly	Arg	Lys	Tyr	Ile	Arg	Met	Ala	Leu	Gly	Gly	Val	Arg	Asp
385					390					395					400
Glu	Ala	Glu	Ile	Arg	Gly	His	Arg	Arg	Thr	Tyr	Ile	Gly	Ser	Met	Pro
			405						410					415	
Gly	Lys	Leu	Ile	Gln	Lys	Met	Ala	Lys	Val	Gly	Val	Lys	Asn	Pro	Leu
			420					425					430		
Phe	Leu	Leu	Asp	Glu	Ile	Asp	Lys	Met	Ser	Ser	Asp	Met	Arg	Gly	Asp
		435					440					445			
Pro	Ala	Ser	Ala	Leu	Leu	Glu	Val	Leu	Asp	Pro	Glu	Gln	Asn	Val	Ala
	450					455					460				
Phe	Ser	Asp	His	Tyr	Leu	Glu	Val	Asp	Tyr	Asp	Leu	Ser	Asp	Val	Met
465					470					475					480
Phe	Val	Ala	Thr	Ser	Asn	Ser	Met	Asn	Ile	Pro	Ala	Pro	Leu	Leu	Asp

485 490 495
 Arg Met Glu Val Ile Arg Leu Ser Gly Tyr Thr Glu Asp Glu Lys Leu
 500 505 510
 Asn Ile Ala Lys Gln His Leu Leu Pro Lys Gln Ile Glu Arg Asn Ala
 515 520 525
 Leu Lys Ala Asn Glu Leu Thr Val Glu Asp Ser Ala Ile Val Gly Ile
 530 535 540
 Ile Arg Tyr Tyr Thr Arg Glu Ala Gly Gly Leu His His Gly Ala Gly
 545 550 555 560
 Arg Ile Arg Pro
 565

<210> 6103

<211> 75

<212> PRT

<213> Enterobacter cloacae

<400> 6103

Ile Ser Asn Gly Leu Val Trp Pro Pro Met Thr Asp Ser Ser Ile Thr
 1 5 10 15
 Thr Phe Ser Thr Ser Ser Ile Glu Gly Arg Ser Tyr Ile Val Ser Ser
 20 25 30
 Asn Ala Ala Ser Thr Ile Glu Arg Arg Pro Arg Ala Pro Val Leu Arg
 35 40 45
 Ala Ile Ala Phe Leu Ala Ile Ala Ser Asn Ala Ser Ser Arg Asn Ser
 50 55 60
 Ser Ser Thr Pro Ser Arg Leu Asn Ser Ala
 65 70 75

<210> 6104

<211> 64

<212> PRT

<213> Enterobacter cloacae

<400> 6104

Ile Asn Ala Ser Ser Leu Ser Ser Phe Arg Val Ala Thr Thr Gly Arg
 1 5 10 15
 Arg Pro Ile Asn Ser Gly Ile Lys Pro Asn Leu Ile Arg Ser Ser Gly
 20 25 30
 Ser Thr Cys Ala Ser Ser Trp Pro Ser Phe Gly Phe Ser Asp Val Ala
 35 40 45
 Phe Thr Val Ala Pro Lys Pro Met Pro Glu Pro Val Ser Thr Arg
 50 55 60

<210> 6105

<211> 161

<212> PRT

<213> Enterobacter cloacae

<400> 6105

Asp Asp Arg Gly Gly Pro Leu His Lys Arg Gly Leu Arg Pro Leu Gly
 1 5 10 15
 Ala Leu Pro Ala His Ala Thr Ser Val Leu Leu Asn Met Leu Leu Cys
 20 25 30
 Ser Arg Pro Gly Lys Pro Gly Phe Val Phe Cys Ala Phe Tyr Pro Leu
 35 40 45
 Phe Pro Gly Glu Arg Val Arg Val Arg Gly Ser Gly Arg Thr Glu Leu
 50 55 60
 His Ile Ala Pro Gly Gly Ile Asp Ser Leu Arg Ser Pro Cys Gly Gln
 65 70 75 80
 Pro Val Arg Tyr Ala Leu Ser Leu Ser Asn Trp Leu Arg Gln Leu Ser

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<210> 6106
<211> 373
<212> PRT
<213> Enterobacter cloacae
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Glu 1	Lys	Thr	Ala	Val 5	Val	Pro	Gly	Ser	Asp 10	Val	Asn	Ser	Leu	Trp 15	Arg
Ser	Arg	Met	Val 20	Ala	Ser	Cys	Thr	Gly 25	Gln	Gly	Lys	His	Ile 30	Asn	Arg
Ser	Thr	Arg 35	Arg	Gly	Gly	Ser	Asp 40	Ser	Gly	Ser	Asp	Phe 45	Phe	Thr	Thr
Lys	Phe 50	Ser	Pro	Ser	Pro	Gln 55	Gln	Pro	Phe	Ser	Thr 60	Asp	Val	His	Asn
Gly 65	Ala	Arg	Ser	Arg	Cys 70	Ile	Ser	Ser	Ser	Gly 75	Asn	Ala	Ser	Asn	Gly 80
Leu	Gln	Gly	Ser	Gln 85	Pro	Ser	Asp	Val	Arg 90	Ala	His	Asn	Arg	Ala	Asp 95
Ala	Gly	Ala	Cys 100	Asp	Glu	Tyr	Gln	Gln 105	Leu	Lys	Val	Leu	Ser 110	Met	Gly
Arg	Gln	Lys 115	Ala	Val	Ile	Lys	Ala 120	Arg	Arg	Glu	Ala	Lys 125	Arg	Val	Leu
Arg	Arg 130	Asp	Ser	Arg	Ser	His 135	Lys	Gln	Arg	Glu	Glu 140	Glu	Ser	Val	Thr
Ser 145	Leu	Val	Gln	Met	Ser 150	Gly	Val	Glu	Ser	Ile 155	Gly	Met	Ala	Arg	Asp 160
Ser	Arg	Asp	Ala 165	Ser	Pro	Ile	Val	Ala	Arg 170	Asn	Glu	Ala	Gln	Ala	His 175
Tyr	Leu	Asn 180	Ala	Ile	Glu	Ser	Lys 185	Gln	Leu	Ile	Phe	Ala	Thr 190	Gly	Glu
Ala	Gly 195	Cys	Gly	Lys	Thr	Trp	Ile 200	Ser	Ala	Ala	Lys	Ala 205	Ala	Glu	Ala
Leu	Ile 210	His	Lys	Asp	Val	Glu	Arg 215	Ile	Ile	Val	Thr 220	Arg	Pro	Val	Leu
Gln 225	Ala	Asp	Glu	Asp 230	Leu	Gly	Phe	Leu	Pro	Gly 235	Asp	Ile	Ser	Glu	Lys 240
Phe	Ala	Pro	Tyr 245	Phe	Arg	Pro	Val	Tyr	Asp 250	Val	Leu	Val	Lys	Arg	Leu 255
Gly	Ala	Ser	Phe 260	Met	Gln	Tyr	Cys 265	Leu	Arg	Pro	Glu	Ile 270	Gly	Lys	Val
Glu	Ile 275	Ala	Pro	Phe	Ala	Tyr	Met 280	Arg	Gly	Arg	Thr	Phe 285	Glu	Asn	Ala
Val	Val 290	Ile	Leu	Asp	Glu 295	Ala	Gln	Asn	Val	Thr 300	Ala	Ala	Gln	Met	Lys
Met 305	Phe	Leu	Thr	Arg 310	Leu	Gly	Glu	Asn	Val	Thr 315	Val	Ile	Val	Asn	Gly 320
Asp	Ile	Thr	Gln 325	Cys	Asp	Leu	Pro	Ser	Gly 330	Val	Lys	Ser	Gly	Leu	Ser 335
Asp	Ala	Met	Ser	Arg	Phe	Glu	Glu	Asp	Glu	Met	Ile	Gly	Val	Val	Arg

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<210> 6107
<211> 62
<212> PRT
<213> Enterobacter cloacae
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<210> 6108
<211> 90
<212> PRT
<213> Enterobacter cloacae
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<210> 6109
<211> 385
<212> PRT
<213> Enterobacter cloacae
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<400> 6109															
Leu	Gln	His	Thr	Leu	Lys	Gly	Arg	Val	Met	Ala	Ile	Gln	Phe	Arg	Arg
1				5					10					15	
Ser	Ala	Leu	Cys	Ala	Gly	Ile	Ala	Ala	Leu	Phe	Val	Ser	Ala	Phe	Ala
			20					25					30		
Ala	Gln	Ala	Ala	Asp	Ile	Pro	Gln	Val	Lys	Val	Thr	Val	Asn	Asp	Lys
			35				40					45			
Gln	Cys	Glu	Pro	Met	Thr	Ile	Thr	Val	Asn	Ser	Gly	Lys	Thr	Gln	Phe
	50					55					60				
Ile	Ile	Gln	Asn	His	Ser	Gln	Lys	Ala	Leu	Glu	Trp	Glu	Ile	Leu	Lys
65					70					75					80
Gly	Val	Met	Val	Val	Glu	Glu	Arg	Glu	Asn	Ile	Ala	Pro	Gly	Phe	Ser
				85					90					95	
Gln	Lys	Met	Thr	Ala	Asn	Leu	Gln	Pro	Gly	Glu	Tyr	Asp	Met	Thr	Cys
			100					105					110		
Gly	Leu	Leu	Thr	Asn	Pro	Lys	Gly	Lys	Leu	Ile	Val	Lys	Gly	Ala	Ala

385

<211> 429

<213> Ent.

<213> Enterobacter cloacae

Ala	Met	Asn	Glu	His	Asp	Glu	Tyr	Asp	Val	Ala	Glu	Pro	Ser	Arg	Arg
1				5					10					15	
Arg	Leu	Leu	Lys	Gly	Val	Gly	Ala	Leu	Gly	Gly	Ala	Phe	Ala	Leu	Ala
			20					25					30		
Gly	Gly	Cys	Pro	Val	Ala	His	Ala	Ala	Lys	Pro	Gln	Ser	Ala	Pro	Gly
		35					40					45			
Thr	Leu	Ser	Pro	Asp	Ala	Arg	Met	Glu	Thr	Gln	Pro	Phe	Tyr	Gly	Glu
	50					55					60				
His	Gln	Ala	Gly	Ile	Leu	Thr	Pro	Gln	Gln	Ala	Ser	Met	Met	Leu	Val
65				70						75					80
Ala	Phe	Asp	Ser	Leu	Ala	Ser	Asp	Lys	Ala	Asp	Leu	Glu	Arg	Leu	Phe
			85						90					95	
Arg	Leu	Leu	Thr	Thr	Arg	Ile	Ala	Phe	Leu	Thr	Ala	Gly	Gly	Pro	Ala
			100					105					110		
Pro	Glu	Thr	Pro	Asn	Pro	Arg	Leu	Pro	Pro	Met	Asp	Ser	Gly	Ile	Leu
		115					120					125			
Gly	Ala	Phe	Ile	Ala	Pro	Asp	Asn	Leu	Thr	Ile	Thr	Val	Ser	Val	Gly
	130					135					140				
Glu	Ser	Leu	Phe	Asp	Asp	Arg	Tyr	Gly	Leu	Ala	Lys	Gln	Lys	Pro	Lys

145					150					155				160
Ala	Leu	Gln	Lys	Met	Thr	Arg	Phe	Pro	Asn	Asp	Ser	Leu	Asp	Ala
				165					170					175
Leu	Cys	His	Gly	Asp	Leu	Leu	Leu	Gln	Ile	Cys	Ala	Asn	Thr	Gln
			180					185					190	
Thr	Val	Ile	His	Ala	Leu	Arg	Asp	Ile	Ile	Lys	His	Thr	Pro	Asp
		195					200					205		
Leu	Ser	Val	Arg	Trp	Lys	Arg	Glu	Gly	Phe	Ile	Ser	Asp	His	Ala
	210				215						220			
Arg	Ser	Lys	Gly	Lys	Glu	Thr	Pro	Val	Asn	Leu	Leu	Gly	Phe	Lys
225					230					235				240
Gly	Thr	Ala	Asn	Pro	Asp	Ser	Ser	Asn	Thr	Ala	Leu	Met	Asn	Lys
			245					250					255	
Val	Trp	Val	Thr	Ala	Asp	Gln	Gly	Glu	Pro	Ala	Trp	Ala	Val	Gly
			260					265					270	
Ser	Tyr	Gln	Ala	Val	Arg	Ile	Ile	Gln	Phe	His	Val	Glu	Phe	Trp
		275				280					285			
Arg	Thr	Pro	Leu	Lys	Glu	Gln	Gln	Thr	Ile	Phe	Gly	Arg	Asp	Lys
	290				295						300			
Thr	Gly	Ala	Pro	Leu	Gly	Met	Lys	Leu	Glu	His	Asp	Glu	Pro	Asp
305					310					315				320
Ala	Arg	Asp	Pro	Asn	Gly	Asp	Val	Ile	Ala	Leu	Asp	Ser	His	Ile
				325					330					335
Leu	Ala	Asn	Pro	Arg	Thr	Lys	Glu	Thr	Gln	Ser	Ser	Leu	Met	Met
		340					345					350		
Arg	Gly	Tyr	Ser	Tyr	Ser	Leu	Gly	Val	Thr	Asn	Ser	Gly	Gln	Leu
	355					360					365			
Met	Gly	Leu	Leu	Phe	Val	Cys	Tyr	Gln	His	Asp	Leu	Glu	Lys	Gly
	370				375					380				
Leu	Thr	Val	Gln	Lys	Arg	Leu	Asn	Gly	Glu	Ala	Leu	Glu	Glu	Tyr
385					390					395				400
Lys	Pro	Ile	Gly	Gly	Gly	Tyr	Phe	Phe	Ala	Leu	Pro	Gly	Ala	Arg
			405					410					415	
Ala	Asn	Ala	Trp	Leu	Ala	Gln	Gly	Leu	Ile	Glu	Ala			
			420				425							

<210> 6111

<211> 104

<212> PRT

<213> Enterobacter cloacae

<400> 6111

Leu	Ala	Ala	Leu	Ala	Leu	Arg	Ala	Ala	Cys	Ser	Leu	Arg	Ser	Gln	Ser
1				5					10					15	
Val	Gln	Leu	Ala	Ala	Pro	Val	Val	Glu	Pro	Arg	Ser	Gly	Val	Leu	Ile
		20					25					30			
Pro	Arg	Lys	Gly	Val	Gln	His	Ala	Lys	Lys	Lys	Pro	Ala	Phe	Ser	Cys
		35				40					45				
Glu	Leu	Phe	Phe	Lys	Tyr	Gly	Gly	Glu	Gly	Gly	Ile	Arg	Thr	Pro	Asp
	50				55					60					
Thr	Leu	Pro	Tyr	Thr	His	Phe	Pro	Gly	Val	Leu	Leu	Gln	Pro	Leu	Gly
65				70					75					80	
His	Leu	Thr	Ile	Leu	Phe	Cys	Cys	Leu	Thr	Ala	Trp	Gly	Ala	Thr	Gly
			85					90						95	
Arg	Tyr	Tyr	Arg	Glu	Leu	Arg									
			100												

<210> 6112

<211> 603

<212> PRT

<213> Enterobacter cloacae

<400> 6112

Arg	Arg	Gly	Ile	Ser	Ser	Ala	Ala	Phe	Phe	Cys	Ser	Asn	Cys	Pro	His
1				5					10					15	
Tyr	Phe	Leu	Pro	Gly	Arg	Phe	Lys	Gly	Cys	His	Tyr	Val	Arg	Leu	Ile
			20					25					30		
Arg	Ser	Tyr	Ala	Val	Ile	Arg	Cys	Leu	Arg	Phe	Glu	Glu	Ser	Thr	Met
		35					40					45			
Ser	Glu	Ala	Glu	Ala	Arg	Pro	Ser	Asn	Phe	Ile	Arg	Gln	Ile	Ile	Asp
	50					55					60				
Glu	Asp	Leu	Ala	Ser	Gly	Lys	His	Thr	Thr	Val	His	Thr	Arg	Phe	Pro
65					70					75					80
Pro	Glu	Pro	Asn	Gly	Tyr	Leu	His	Ile	Gly	His	Ala	Lys	Ser	Ile	Cys
			85						90					95	
Leu	Asn	Phe	Gly	Ile	Ala	Gln	Asp	Tyr	Gln	Gly	Gln	Cys	Asn	Leu	Arg
			100					105					110		
Phe	Asp	Asp	Thr	Asn	Pro	Val	Lys	Glu	Asp	Ile	Glu	Tyr	Val	Glu	Ser
		115					120					125			
Ile	Lys	Asn	Asp	Val	Gln	Trp	Leu	Gly	Phe	Asn	Trp	Ser	Gly	Asp	Ile
	130					135					140				
Cys	Tyr	Ser	Ser	Asp	Tyr	Phe	Asp	Gln	Leu	Tyr	Ala	Tyr	Ala	Val	Glu
145					150					155					160
Leu	Ile	Asn	Lys	Gly	Leu	Ala	Tyr	Val	Asp	Glu	Leu	Ser	Ala	Asp	Glu
			165						170					175	
Ile	Arg	Glu	Tyr	Arg	Gly	Thr	Leu	Thr	Gln	Pro	Gly	Lys	Asn	Ser	Pro
			180					185					190		
Phe	Arg	Asp	Arg	Ser	Val	Glu	Glu	Asn	Leu	Ala	Leu	Phe	Glu	Lys	Met
		195					200					205			
Arg	Ala	Gly	Gly	Phe	Glu	Glu	Gly	Lys	Ala	Cys	Leu	Arg	Ala	Lys	Ile
	210					215					220				
Asp	Met	Ala	Ser	Pro	Phe	Ile	Val	Met	Arg	Asp	Pro	Val	Leu	Tyr	Arg
225					230					235					240
Ile	Lys	Phe	Ala	Glu	His	His	Gln	Thr	Gly	Asn	Lys	Trp	Cys	Ile	Tyr
			245						250					255	
Pro	Met	Tyr	Asp	Phe	Thr	His	Cys	Ile	Ser	Asp	Ala	Leu	Glu	Gly	Ile
			260					265					270		
Thr	His	Ser	Leu	Cys	Thr	Leu	Glu	Phe	Gln	Asp	Asn	Arg	Arg	Leu	Tyr
		275					280					285			
Asp	Trp	Val	Leu	Asp	Asn	Ile	Thr	Ile	Pro	Val	His	Pro	Arg	Gln	Tyr
	290					295					300				
Glu	Phe	Ser	Arg	Leu	Asn	Leu	Glu	Tyr	Thr	Val	Met	Ser	Lys	Arg	Lys
305					310					315					320
Leu	Asn	Leu	Leu	Val	Thr	Asp	Lys	His	Val	Glu	Gly	Trp	Asp	Asp	Pro
			325						330					335	
Arg	Met	Pro	Thr	Ile	Ser	Gly	Leu	Arg	Arg	Arg	Gly	Tyr	Thr	Ser	Ala
			340					345					350		
Ser	Ile	Arg	Glu	Phe	Cys	Lys	Arg	Ile	Gly	Val	Thr	Lys	Gln	Asp	Asn
		355					360					365			
Thr	Ile	Glu	Met	Ala	Ser	Leu	Glu	Ser	Cys	Ile	Arg	Glu	Asp	Leu	Asn
	370					375					380				
Glu	Asn	Ala	Pro	Arg	Ala	Met	Ala	Val	Ile	Asp	Pro	Val	Lys	Leu	Val
385					390					395					400
Ile	Glu	Asn	Tyr	Pro	Gln	Gly	Gly	Ser	Glu	Gln	Val	Ser	Met	Pro	Asn
			405					410						415	
His	Pro	Asn	Lys	Pro	Glu	Met	Gly	Thr	Arg	Asp	Val	Pro	Phe	Ser	Gly
			420					425					430		
Glu	Ile	Trp	Ile	Asp	Arg	Ala	Asp	Phe	Arg	Glu	Glu	Ala	Asn	Lys	Gln
		435					440					445			
Tyr	Lys	Arg	Leu	Val	Leu	Gly	Lys	Glu	Val	Arg	Leu	Arg	Asn	Ala	Tyr
	450					455					460				
Val	Ile	Lys	Ala	Glu	Arg	Val	Glu	Lys	Asp	Ala	Glu	Gly	Asn	Ile	Thr

465					470					475					480
Thr	Ile	Phe	Cys	Thr	Tyr	Asp	Ala	Glu	Thr	Leu	Ser	Lys	Asp	Pro	Ala
				485					490					495	
Asp	Gly	Arg	Lys	Val	Lys	Gly	Val	Ile	His	Trp	Val	Ser	Ala	Gln	His
			500					505					510		
Ala	Leu	Pro	Val	Glu	Ile	Arg	Leu	Tyr	Asp	Arg	Leu	Phe	Ser	Val	Pro
		515					520					525			
Asn	Pro	Gly	Ala	Ala	Glu	Asp	Phe	Leu	Ala	Val	Ile	Asn	Pro	Glu	Ser
		530				535					540				
Leu	Ile	Ile	Lys	Gln	Gly	Tyr	Ala	Glu	Pro	Ser	Leu	Lys	Ala	Ala	Glu
545					550					555					560
Ala	Gly	Lys	Ala	Phe	Gln	Phe	Glu	Arg	Glu	Gly	Tyr	Phe	Cys	Leu	Asp
				565					570					575	
Ser	Arg	Tyr	Ser	Thr	Ala	Glu	Lys	Pro	Val	Phe	Asn	Arg	Thr	Val	Gly
			580					585					590		
Leu	Arg	Asp	Thr	Trp	Thr	Lys	Ile	Gly	Glu						
		595					600								

<210> 6113
 <211> 205
 <212> PRT
 <213> Enterobacter cloacae

<220>
 <221> UNSURE
 <222> (176)

<220>
 <221> UNSURE
 <222> (185)

<400>	6113														
Ser	Met	Arg	Thr	Phe	Ser	Gly	Lys	Arg	Ser	Ala	Leu	Ala	Leu	Ala	Ile
1				5					10					15	
Ala	Gly	Val	Thr	Ala	Met	Ser	Gly	Leu	Val	Val	Ala	Pro	Gln	Ala	Lys
			20					25					30		
Ala	Ala	Gly	Phe	Ile	Glu	Asp	Ser	Thr	Leu	Thr	Gly	Gly	Ile	Tyr	Tyr
		35					40					45			
Trp	Gln	Arg	Glu	Arg	Asp	Arg	Lys	Asp	Val	Thr	Glu	Asp	Lys	Tyr	Lys
	50					55					60				
Thr	Asn	Leu	Ser	His	Ser	Thr	Trp	Asn	Ala	Asn	Leu	Asp	Phe	Gln	Ser
65					70					75					80
Gly	Tyr	Ala	Ala	Asp	Met	Phe	Gly	Ile	Asp	Ile	Ala	Ala	Phe	Thr	Ala
				85					90					95	
Ile	Glu	Met	Ala	Glu	Asn	Gly	Asp	Ser	Gly	His	Pro	Asn	Glu	Ile	Ala
		100						105					110		
Phe	Ser	Ser	Ser	Asn	Lys	Ala	Tyr	Asp	Glu	Asp	Trp	Ser	Gly	Asp	Lys
		115					120					125			
Ser	Gly	Ile	Ser	Leu	Tyr	Lys	Ala	Ala	Ala	Lys	Phe	Lys	Tyr	Gly	Pro
	130					135					140				
Val	Trp	Ala	Arg	Gly	Ser	Tyr	Ile	Gln	Pro	Thr	Gly	Gln	Thr	Leu	Leu
145					150					155					160
Ala	Pro	His	Trp	Ser	Phe	Met	Pro	Gly	Thr	Tyr	Gln	Gly	Ala	Glu	Xaa
				165					170					175	
Gly	Ala	Asn	Phe	Asp	Tyr	Gly	Glu	Xaa	Gly	Gly	Val	Ser	Phe	Ser	Tyr
		180						185					190		
Met	Trp	Asn	Asn	Glu	Val	Thr	Ser	Ala	Val	Ala	His				
		195					200					205			

<210> 6114
 <211> 667

<212> PRT

<213> Enterobacter cloacae

<400> 6114

Lys His Ser Leu Cys Ala Ser Leu Asn Lys Gly Ser Arg Arg Gly Asn
 1 5 10 15
 Arg Met Asn Ile Leu Gly Phe Phe Gln Arg Leu Gly Arg Ala Leu Gln
 20 25 30
 Leu Pro Ile Ala Val Leu Pro Val Ala Ala Leu Leu Leu Arg Phe Gly
 35 40 45
 Gln Pro Asp Leu Leu Asn Val Pro Phe Ile Ala Gln Ala Gly Gly Ala
 50 55 60
 Ile Phe Asp Asn Leu Ala Leu Ile Phe Ala Ile Gly Val Ala Ser Ser
 65 70 75 80
 Trp Ser Lys Asp Ser Ala Gly Ala Ala Ala Leu Ala Gly Ala Val Gly
 85 90 95
 Tyr Phe Ile Leu Thr Lys Ala Met Val Thr Ile Asn Pro Glu Ile Asn
 100 105 110
 Met Gly Val Leu Ala Gly Ile Ile Thr Gly Leu Val Gly Gly Ala Val
 115 120 125
 Tyr Asn Arg Trp Ala Gly Ile Lys Leu Pro Asp Phe Leu Ser Phe Phe
 130 135 140
 Gly Gly Lys Arg Phe Val Pro Ile Ala Thr Gly Phe Phe Cys Leu Ile
 145 150 155 160
 Leu Ala Ala Ile Phe Gly Tyr Val Trp Pro Pro Val Gln His Ala Ile
 165 170 175
 His Ala Asp Gly Glu Trp Ile Val Ser Ala Gly Ala Met Gly Ala Gly
 180 185 190
 Ile Phe Gly Phe Ile Asn Arg Leu Leu Ile Pro Thr Gly Leu His Gln
 195 200 205
 Val Leu Asn Thr Ile Ala Trp Phe Gln Ile Gly Glu Phe Thr Asn Ala
 210 215 220
 Ala Gly Ala Val Phe His Gly Asp Ile Asn Arg Phe Tyr Ala Gly Asp
 225 230 235 240
 Gly Thr Ala Gly Met Phe Met Ser Gly Phe Phe Pro Ile Met Met Phe
 245 250 255
 Gly Leu Pro Gly Ala Ala Leu Ala Met Tyr Leu Ala Ala Pro Lys Ala
 260 265 270
 Arg Arg Pro Met Val Gly Gly Met Leu Leu Ser Val Ala Ile Thr Ala
 275 280 285
 Phe Leu Thr Gly Val Thr Glu Pro Leu Glu Phe Leu Phe Met Phe Leu
 290 295 300
 Ala Pro Leu Leu Tyr Leu Met His Ala Ile Leu Thr Gly Ile Ser Leu
 305 310 315 320
 Phe Val Ala Thr Leu Leu Gly Ile His Ala Gly Phe Ser Phe Ser Ala
 325 330 335
 Gly Ala Ile Asp Tyr Val Trp Met Tyr Asn Leu Pro Ala Ala Ser Ile
 340 345 350
 Ser Val Trp Ile Leu Met Val Met Gly Leu Ile Phe Cys Val Ile Tyr
 355 360 365
 Phe Val Leu Phe Ser Ala Val Val Arg Met Phe Asn Leu Lys Thr Pro
 370 375 380
 Gly Arg Glu Asp Ala Lys Asp Asp Val Val Thr Ser Glu Ala Asn Ser
 385 390 395 400
 Asn Thr Glu Glu Gly Leu Thr Gln Leu Ala Thr Thr Tyr Ile Ala Ala
 405 410 415
 Val Gly Gly Thr Asp Asn Leu Lys Ala Ile Asp Ala Cys Ile Thr Arg
 420 425 430
 Leu Arg Leu Thr Val Gly Asp Ser Ala Arg Val Ser Asp Ala Met Cys
 435 440 445
 Lys Arg Leu Gly Ala Ser Gly Val Val Lys Leu Asn Lys Gln Thr Ile

450		455		460
Gln Val Ile Val Gly Ala	Lys Ala Glu Ser Ile Gly Asp Glu Met Lys			
465	470	475		480
Lys Val Val Ala Arg Gly	Pro Val Ala Ala Ser Thr Asp Asn Ala			
	485	490		495
Pro Val Ala Asp Ala	Pro Val Ala Lys Pro Gln Ala Val Pro Asn Ala			
	500	505		510
Val Thr Ile Ala Ala Leu	Val Ser Pro Val Thr Gly Asp Val Val Ala			
	515	520		525
Leu Glu Gln Val Pro Asp	Glu Ala Phe Ala Ser Lys Ala Val Gly Asp			
	530	535		540
Gly Val Ala Val Lys Pro	Thr Asp Lys Thr Val Val Ser Pro Ala Ala			
545	550	555		560
Gly Thr Ile Val Lys Ile	Phe Asn Thr Asn His Ala Phe Cys Leu Glu			
	565	570		575
Thr Glu Lys Gly Ala Glu	Ile Val Val His Met Gly Ile Asp Thr Val			
	580	585		590
Ala Leu Asn Gly Gln Gly	Phe Thr Arg Leu Val Glu Glu Gly Ala Glu			
	595	600		605
Val Ala Ala Gly Gln Pro	Ile Leu Glu Met Asp Leu Asp Phe Leu Asn			
	610	615		620
Ala Asn Ala Arg Ser Met	Ile Ser Pro Val Val Cys Ser Asn Ile Asp			
625	630	635		640
Asp Phe Ser Gly Leu Val	Ile Gln Ala Gln Gly Gln Val Val Ala Gly			
	645	650		655
Gln Thr Pro Leu Tyr Glu	Ile Lys Gly Lys			
	660	665		

<210> 6115

<211> 287

<212> PRT

<213> Enterobacter cloacae

<400> 6115

Asn Val Pro Glu Glu Asn Asn Gly Gly Asn Cys Cys Lys Lys Lys Arg	
1	5 10 15
Arg Arg Ile Ser Pro Ala Ala Lys Gly Ile Thr Leu Leu Arg Ser Asp	
	20 25 30
Tyr Leu Pro Leu Ile Ser Tyr Ser Gly Val Trp Pro Ala Thr Thr Cys	
	35 40 45
Pro Cys Ala Trp Ile Thr Arg Pro Leu Lys Ser Ser Met Leu Leu His	
	50 55 60
Thr Thr Gly Leu Ile Met Glu Arg Ala Leu Ala Phe Arg Lys Ser Arg	
65	70 75 80
Ser Ile Ser Arg Ile Gly Trp Pro Ala Thr Ser Ala Pro Ser Ser	
	85 90 95
Thr Arg Arg Val Lys Pro Trp Pro Phe Ser Ala Thr Val Ser Ile Pro	
	100 105 110
Ile Trp Thr Thr Ile Ser Ala Pro Phe Ser Val Ser Arg Gln Asn Ala	
	115 120 125
Trp Leu Val Leu Lys Ile Phe Thr Ile Val Pro Ala Ala Gly Glu Thr	
	130 135 140
Thr Val Leu Ser Val Gly Phe Thr Ala Thr Pro Ser Pro Thr Ala Leu	
145	150 155 160
Leu Ala Asn Ala Ser Ser Gly Thr Cys Ser Ser Ala Thr Thr Ser Pro	
	165 170 175
Val Thr Gly Glu Thr Ser Ala Ala Met Val Thr Ala Phe Gly Thr Ala	
	180 185 190
Cys Gly Phe Ala Thr Gly Ala Ser Ala Thr Gly Ala Leu Ser Val Glu	
	195 200 205
Ala Ala Ala Thr Gly Pro Arg Ala Thr Thr Phe Phe Ile Ser Ser Pro	

210		215		220
Ile Asp Ser Ala Phe	Ala Pro Thr Ile Thr Trp	Met Val Cys Leu Phe		
225	230	235	240	
Ser Phe Thr Thr	Pro Asp Ala Pro Arg Arg	Leu His Ile Ala Ser Leu		
	245	250	255	
Thr Arg Ala Glu Ser	Pro Thr Val Arg Arg Arg	Val Ile Gln Ala		
	260	265	270	
Ser Ile Ala Phe Arg	Leu Ser Val Pro Pro Thr	Ala Ala Met		
	275	280	285	

<210> 6116

<211> 367

<212> PRT

<213> Enterobacter cloacae

<400> 6116

Ala Gly Asp Gly Gly	Asp His Pro Gly Ser	Ala Gly Cys Ala Asp Gly
1	5	10
Gly Ser Arg Pro Phe	Thr Ala Leu Leu Ser	Lys Ile Asn Pro His Thr
	20	25
Ser Gln Gln Gly Lys	Asp Ile Met Lys Ser	Arg Ala Ala Val Ala Phe
	35	40
Gly Pro Gly Gln Pro	Leu Lys Ile Val Glu	Ile Asp Val Ala Pro Pro
	50	55
Lys Lys Gly Glu Val	Leu Ile Lys Ile Thr	His Thr Gly Val Cys His
	65	70
Thr Asp Ala Phe Thr	Leu Ser Gly Asp Asp	Pro Glu Gly Val Phe Pro
	85	90
Ala Val Leu Gly His	Glu Gly Gly Gly Val	Val Val Glu Val Gly Glu
	100	105
Gly Val Thr Ser Leu	Lys Pro Gly Asp His	Val Ile Pro Leu Tyr Thr
	115	120
Ala Glu Cys Gly Glu	Cys Lys Phe Cys Lys	Ser Gly Lys Thr Asn Leu
	130	135
Cys Gln Ala Val Arg	Ala Thr Gln Gly Lys	Gly Leu Met Pro Asp Gly
	145	150
Thr Thr Arg Phe Ser	Tyr Asn Gly Glu Pro	Ile Tyr His Tyr Met Gly
	165	170
Thr Ser Thr Phe Ser	Glu Tyr Thr Val Cys	Ala Glu Ile Ser Leu Ala
	180	185
Lys Val Asn Pro Gln	Ala Pro Leu Asp Lys	Val Cys Leu Leu Gly Cys
	195	200
Gly Val Thr Thr Gly	Ile Gly Ala Val His	Asn Thr Ala Lys Val Lys
	210	215
Glu Gly Asp Thr Val	Ala Val Phe Gly Leu	Gly Gly Ile Gly Leu Ala
	225	230
Val Ile Gln Gly Ala	Val Gln Ala Lys Ala	Gly Arg Ile Ile Ala Val
	245	250
Asp Thr Asn Pro Glu	Lys Phe Lys Leu Ala	Gly Glu Met Gly Ala Thr
	260	265
Asp Phe Ile Asn Pro	Lys Asp Tyr Asp Lys	Pro Val Gln Glu Val Ile
	275	280
Val Glu Leu Thr Asp	Gly Gly Val Asp Phe	Ser Phe Glu Cys Ile Gly
	290	295
Asn Val Tyr Val Met	Arg Ser Ala Leu Glu	Cys Cys His Lys Gly Trp
	305	310
Gly Glu Ser Ile Ile	Ile Gly Val Ala Gly	Arg Gly Ser Gly Asp Gln
	325	330
Asn Pro Ser Leu Pro	Ser Gly Asp Arg Gly	Arg Met Ala Arg Val Gly
	340	345
Ile Trp Arg Arg Glu	Arg Pro Tyr Pro Ala	Ala Gly His Gly

355 360 365
 <210> 6117
 <211> 104
 <212> PRT
 <213> Enterobacter cloacae

 <400> 6117
 Lys Ile Gln Tyr Pro Pro Ile Val Ser Gly Gly Arg Met Pro His Ser
 1 5 10 15
 Pro Glu Asp Lys Lys Arg Ile Leu Thr Arg Val Arg Arg Ile Arg Gly
 20 25 30
 Gln Val Asp Ala Leu Glu Arg Ala Leu Glu Ser Gly Asp Pro Cys Leu
 35 40 45
 Ala Ile Leu Gln Gln Ile Ala Ala Val Arg Gly Ala Ala Asn Gly Leu
 50 55 60
 Met Gly Glu Met Val Glu Ile His Leu Lys Asp Glu Leu Val Thr Gly
 65 70 75 80
 Glu Thr Thr Pro Asp Gln Arg Ala Val Arg Met Ala Glu Val Gly His
 85 90 95
 Leu Leu Arg Ser Tyr Leu Lys
 100

 <210> 6118
 <211> 104
 <212> PRT
 <213> Enterobacter cloacae

 <400> 6118
 Cys Ala Gln Arg Leu Ser Ala Ala Thr Lys Ala Gly Ala Arg Ala Ser
 1 5 10 15
 Leu Ser Val Trp Pro Ala Ala Gly Gln Glu Ile Lys Thr Arg Pro Tyr
 20 25 30
 His Leu Val Thr Gly Gly Val Trp Arg Gly Ser Ala Phe Gly Gly Val
 35 40 45
 Lys Gly Arg Thr Gln Leu Pro Gly Met Val Glu Asp Ala Met Val Gly
 50 55 60
 Lys Ile Gln Leu Asp Pro Phe Ile Thr His Arg Leu Pro Leu Glu Gln
 65 70 75 80
 Ile Asn Glu Ala Phe Asp Leu Met His Glu Gly Lys Ser Ile Arg Thr
 85 90 95
 Val Ile His Phe Gly Asp Asn
 100

 <210> 6119
 <211> 517
 <212> PRT
 <213> Enterobacter cloacae

 <400> 6119
 Ser Phe Leu Lys Cys Asp Leu Ser Gly Ala Phe Asn Arg Asn Leu Ile
 1 5 10 15
 Leu Arg Arg Ala Asp Asp Ser Phe Thr Gly Val Phe Leu Arg Ile Leu
 20 25 30
 Pro Ile Arg Glu Ser Thr Val Met Asp Asn Thr Thr Ser Met Gln Ala
 35 40 45
 Gln His Lys Leu Ser Phe Leu His His Ile Arg Leu Val Pro Leu Phe
 50 55 60
 Ser Ser Ile Leu Gly Gly Ile Ile Leu Leu Phe Ala Leu Ser Ser Gly
 65 70 75 80
 Leu Ala Gly Tyr Phe Leu Leu Gln Ala Asp Asn Asp Gln Gln Asp Val

85					90					95					
Thr	Ala	Glu	Ile	Gln	Val	Arg	Thr	Gly	Leu	Ser	Asn	Ser	Ser	Asn	His
			100					105					110		
Leu	Arg	Thr	Ala	Arg	Ile	Asn	Met	Ile	His	Ala	Gly	Ala	Ala	Ser	Arg
		115					120					125			
Ile	Ala	Glu	Met	Glu	Ala	Met	Lys	Gln	Asn	Ile	Ala	Glu	Ala	Glu	Thr
	130					135					140				
Arg	Ile	Arg	Gln	Ser	Gln	Asp	Gly	Phe	Ala	Ala	Tyr	Met	Lys	Arg	Thr
145				150					155						160
Ile	Arg	Thr	Pro	Ala	Asp	Glu	Ala	Leu	Asp	Gly	Asp	Leu	Lys	Ala	Arg
			165						170					175	
Tyr	Asp	Ala	Tyr	Ile	Ala	Gly	Met	Gln	Pro	Met	Leu	Lys	Tyr	Ala	Lys
		180						185					190		
Asn	Gly	Met	Phe	Glu	Ala	Ile	Ile	Asn	His	Glu	Asn	Glu	Thr	Ala	Arg
		195					200					205			
Pro	Leu	Asp	Asp	Ala	Tyr	Asn	Ala	Val	Leu	Leu	Lys	Ala	Ile	Lys	Ile
	210					215					220				
Arg	Thr	Glu	Arg	Ala	Asn	Ala	Leu	Thr	Ala	Gln	Ala	His	Thr	Arg	Thr
225					230					235					240
Arg	Leu	Gly	Leu	Met	Phe	Met	Phe	Gly	Ala	Phe	Gly	Leu	Ala	Leu	Ala
			245						250					255	
Leu	Ala	Val	Ile	Thr	Phe	Val	Val	Leu	Arg	Arg	Thr	Val	Ile	Asn	Pro
		260						265					270		
Leu	Gln	Arg	Ala	Ala	Thr	Arg	Ile	Glu	Asn	Ile	Ala	Lys	Gly	Asp	Leu
	275						280					285			
Thr	Met	Pro	Asp	Glu	Pro	Thr	Gly	Arg	Ser	Glu	Ile	Gly	Arg	Leu	Thr
	290					295					300				
Arg	Asp	Leu	Gln	Thr	Met	Gln	His	Ala	Leu	Val	Thr	Thr	Val	Gly	Thr
305					310					315					320
Val	Arg	Gln	Gly	Ala	Glu	Glu	Ile	Tyr	Arg	Gly	Thr	Ser	Glu	Ile	Ser
			325						330					335	
Ala	Gly	Asn	Thr	Asp	Leu	Ser	Ser	Arg	Thr	Glu	Gln	Gln	Ala	Ala	Ala
			340					345					350		
Ile	Glu	Gln	Thr	Ala	Ala	Ser	Met	Glu	Gln	Leu	Thr	Ala	Thr	Val	Lys
		355					360					365			
Gln	Asn	Ala	Asp	Asn	Ala	His	His	Ala	Ser	Lys	Leu	Ala	Glu	Asp	Ala
	370					375					380				
Ser	Gly	Lys	Ala	Ser	Arg	Gly	Gly	Gln	Met	Val	Ser	Gly	Val	Val	Lys
385					390					395					400
Thr	Met	Gly	Asn	Ile	Ser	Thr	Ser	Ser	Lys	Lys	Ile	Ser	Glu	Ile	Thr
			405						410					415	
Ala	Val	Ile	Asn	Ser	Ile	Ala	Phe	Gln	Thr	Asn	Ile	Leu	Ala	Leu	Asn
			420					425					430		
Ala	Ala	Val	Glu	Ala	Ala	Arg	Ala	Gly	Glu	Gln	Gly	Arg	Gly	Phe	Ala
		435					440					445			
Val	Val	Ala	Ser	Glu	Val	Arg	Thr	Leu	Ala	Ser	Arg	Ser	Ala	Asn	Ala
	450					455					460				
Ala	Lys	Glu	Ile	Glu	Ser	Leu	Ile	Asn	Glu	Ser	Val	Ser	Leu	Ile	Asp
465					470					475					480
Gln	Gly	Ser	Gly	Glu	Val	Val	Ala	Ala	Gly	Asn	Thr	Met	Asn	Glu	Ile
			485						490					495	
Val	Glu	Ala	Val	Lys	Arg	Val	Thr	Asp	Ile	Met	Ser	Ser	Ala	Arg	Gly
			500					505					510		
Gly	Ser	Thr	Glu	Ser											
			515												

<210> 6120

<211> 167

<212> PRT

<213> Enterobacter cloacae

<400> 6120

Lys Asp Phe Leu Leu Pro Pro Asn Cys Pro Gln Ser Val Phe Cys Pro
 1 5 10 15
 Gln Ile Cys Pro Arg Asn Leu Leu Phe Cys Val Ala Pro Ser Ser Phe
 20 25 30
 Glu Ser His Leu Phe Thr Gln Phe Arg Leu Ile Ser Ile Ile Ala Thr
 35 40 45
 Asn Pro Phe Val Arg Leu Asn Gln Arg Ala Leu Leu Phe Pro Thr Asn
 50 55 60
 Leu Tyr Phe Gln Ser Asp Thr Arg Leu Glu Val Ser Met Cys Gly Arg
 65 70 75 80
 Phe Ala Gln Ala Gln Thr Arg Glu Glu Tyr Leu Ala Tyr Phe Ala Asp
 85 90 95
 Glu Ala Val Arg Asp Ile Ala Tyr Asp Pro Glu Pro Ile Gly Arg Tyr
 100 105 110
 Asn Val Ala Pro Gly Ser Lys Val Leu Leu Leu Ser Glu His Asp Glu
 115 120 125
 Gln Leu His Leu Asp Pro Val Phe Trp Gly Tyr Pro Pro Gly Trp Trp
 130 135 140
 Asp Lys Ala Pro Leu Ile Asn Ala Arg Val Glu Thr Ala Ala Thr Ser
 145 150 155 160
 Arg Met Phe Lys Pro Leu
 165

<210> 6121

<211> 111

<212> PRT

<213> Enterobacter cloacae

<400> 6121

Gln His Gly Arg Ala Ile Cys Phe Ala Asp Gly Trp Phe Glu Trp Lys
 1 5 10 15
 Arg Glu Glu Gly Lys Lys Gln Pro Tyr Phe Ile His Arg Ala Asp Gly
 20 25 30
 Gln Pro Ile Phe Met Ala Ala Ile Gly Ser Thr Pro Phe Glu Arg Gly
 35 40 45
 Asp Glu Ala Glu Gly Phe Leu Ile Val Thr Ser Ala Ala Asp Lys Gly
 50 55 60
 Leu Val Asp Ile His Asp Arg Arg Pro Leu Val Leu Ser Pro Glu Ala
 65 70 75 80
 Ala Arg Glu Trp Met Arg Gln Glu Val Gly Gly Lys Glu Ala Glu Gln
 85 90 95
 Ile Ala Ala Asp Gly Val Ser Thr Arg Gln Gly Glu Val Gln Arg
 100 105 110

<210> 6122

<211> 143

<212> PRT

<213> Enterobacter cloacae

<400> 6122

Asn Ser Ala Ser Gln Lys Glu Ile Ala Met Thr Leu Pro Ser Gly His
 1 5 10 15
 Pro Lys Ser Arg Leu Ile Lys Lys Phe Met Ala Leu Gly Pro Tyr Ile
 20 25 30
 Arg Glu Glu Gln Cys Glu Glu Asn Arg Phe Phe Phe Asp Cys Leu Ala
 35 40 45
 Val Cys Val Asn Val Lys Pro Ala Pro Glu Lys Arg Glu Phe Trp Gly
 50 55 60
 Trp Trp Met Glu Met Glu Ala Gln Glu Asn Arg Phe Thr Tyr Ser Tyr
 65 70 75 80

Gln Phe Gly Leu Phe Asn Lys Asp Gly His Trp Gln Ala Thr Ser Ile
 85 90 95
 Lys Asp Gln Glu Val Ile Asp Arg Leu Glu His Thr Leu Lys Glu Phe
 100 105 110
 His Gly Lys Ala Arg Asp Leu Leu Ala Thr Leu Asp Leu Lys Leu Glu
 115 120 125
 Pro Ala Asp Asp Phe Ser Ser Glu Ala Val Lys Leu Arg Ala
 130 135 140

<210> 6123

<211> 169

<212> PRT

<213> Enterobacter cloacae

<400> 6123

Leu Arg Pro Arg Pro Ala Ile Lys Ala Leu Glu Asn Ile Pro Trp Val
 1 5 10 15
 Asp His Thr Arg Val Gly Ala Phe Gly Phe Arg Phe Gly Ala Asn Val
 20 25 30
 Ala Val Arg Leu Ala Tyr Leu Glu Ser Ser Arg Leu Lys Ala Val Ala
 35 40 45
 Cys Leu Gly Pro Val Val His Ala Leu Leu Ser Asp Pro Ala Arg Gln
 50 55 60
 Gly Ser Val Pro Glu Met Tyr Leu Asp Val Leu Ala Ser Arg Leu Gly
 65 70 75 80
 Met His Asp Ala Ser Asp Glu Ala Leu Arg Ile Glu Leu Asn Arg Tyr
 85 90 95
 Ser Leu Lys Thr Gln Gly Leu Leu Gly Arg Arg Cys Pro Thr Pro Met
 100 105 110
 Met Ser Gly Phe Trp Lys Asn Asp Pro Phe Ser Pro Glu Glu Ser
 115 120 125
 Arg Leu Ile Thr Ser Ser Ser Ser Asp Gly Lys Leu Leu Glu Val Pro
 130 135 140
 Phe Ser Pro Val Tyr Gln Asn Phe Asp Lys Ala Leu Lys Glu Ile Thr
 145 150 155 160
 Arg Trp Ile Thr Gln Arg Leu Cys
 165

<210> 6124

<211> 381

<212> PRT

<213> Enterobacter cloacae

<400> 6124

Leu Thr Ser Phe Ser Leu Ile Val Glu Arg Gln Arg Ile Met Ser Asp
 1 5 10 15
 Ser Gln Thr Leu Val Val Lys Leu Gly Thr Ser Val Leu Thr Gly Gly
 20 25 30
 Ser Arg Arg Leu Asn Arg Ala His Ile Val Glu Leu Val Arg Gln Cys
 35 40 45
 Ala Gln Leu His Ala Ala Gly His Arg Ile Val Ile Val Thr Ser Gly
 50 55 60
 Ala Ile Ala Ala Gly Arg Glu His Leu Gly Tyr Pro Glu Leu Pro Ala
 65 70 75 80
 Thr Ile Ala Ser Lys Gln Leu Leu Ala Ala Val Gly Gln Ser Arg Leu
 85 90 95
 Ile Gln Leu Trp Glu Gln Leu Phe Ser Ile Tyr Gly Ile His Val Gly
 100 105 110
 Gln Met Leu Leu Thr Arg Ala Asp Met Glu Asp Arg Glu Arg Phe Leu
 115 120 125
 Asn Ala Arg Asp Thr Leu Arg Ala Leu Leu Asp Asn His Ile Val Pro

130	135	140
Val Ile Asn Glu Asn Asp	Ala Val Ala Thr Ala Glu Ile Lys Val Gly	
145	150	155
Asp Asn Asp Asn Leu Ser	Ala Leu Ala Ala Ile Leu Ala Gly Ala Asp	
165	170	175
Lys Leu Leu Leu Leu Thr	Asp Gln Gln Gly Leu Phe Thr Ala Asp Pro	
180	185	190
Arg Ser Asn Pro Gln Ala	Glu Leu Ile Lys Asp Val His Gly Ile Asp	
195	200	205
Asp Ala Leu Arg Ala Ile	Ala Gly Asp Ser Val Ser Gly Leu Gly Thr	
210	215	220
Gly Gly Met Gly Thr Lys	Leu Gln Ala Ala Asp Val Ala Cys Arg Ala	
225	230	235
Gly Ile Asp Thr Ile Ile	Ala Ala Gly Ser Arg Pro Gly Val Ile Gly	
245	250	255
Asp Val Met Glu Gly Ile	Ser Val Gly Thr Arg Phe His Ala Gln Ala	
260	265	270
Ser Pro Leu Glu Asn Arg	Lys Arg Trp Ile Phe Gly Ala Pro Pro Ala	
275	280	285
Gly Glu Leu Thr Val Asp	Glu Gly Ala Thr Ala Ala Ile Leu Glu Arg	
290	295	300
Gly Ser Ser Leu Leu Pro	Lys Gly Ile Lys Ser Val Thr Gly Asn Phe	
305	310	315
Ser Arg Gly Glu Val Ile	Arg Ile Arg Asn Leu Glu Gly Arg Asp Ile	
325	330	335
Ala His Gly Val Ser Arg	Tyr Asn Ser Asp Ala Leu Arg Arg Ile Ala	
340	345	350
Gly His His Ser Gln Gln	Ile Asp Ala Ile Leu Gly Tyr Glu Tyr Gly	
355	360	365
Pro Val Ala Val His Arg	Asp Asp Met Ile Ile Arg	
370	375	380

<210> 6125

<211> 360

<212> PRT

<213> Enterobacter cloacae

<400> 6125

Arg Val Phe Ile Lys Ser	Gly Leu Lys Met Lys Lys Ser Thr Leu Ala
1	5 10 15
Leu Val Val Met Gly Val	Val Ala Ser Ala Ser Val Gln Ala Ala Glu
20	25 30
Val Tyr Asn Lys Asn Gly	Asn Lys Leu Asp Val Tyr Gly Lys Val Lys
35	40 45
Ala Met His Tyr Ile Arg	Asp Asp Ala Lys Asp Gly Asp Gln Thr
50	55 60
Tyr Val Arg Phe Gly Phe	Lys Gly Glu Thr Gln Ile Asn Asp Gln Leu
65	70 75 80
Thr Gly Tyr Gly Arg Trp	Glu Ala Glu Phe Ala Gly Asn Lys Ala Glu
85	90 95
Ser Asp Ser Ser Gln Lys	Thr Arg Leu Ala Phe Ala Gly Leu Lys Leu
100	105 110
Lys Asp Phe Gly Ser Leu	Asp Tyr Gly Arg Asn Leu Gly Ala Leu Tyr
115	120 125
Asp Val Ala Ala Tyr Thr	Asp Met Phe Pro Glu Phe Gly Gly Asp Gly
130	135 140
Leu Ala Gln Thr Asp Asn	Phe Met Thr Lys Arg Ala Ser Gly Leu Ala
145	150 155 160
Thr Tyr Arg Asn Thr Asp	Phe Phe Gly Leu Val Asp Gly Leu Asn Met
165	170 175
Thr Leu Gln Tyr Gln Gly	Lys Asn Glu Asn Arg Asp Val Lys Lys Gln

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<210> 6126
<211> 244
<212> PRT
<213> Enterobacter cloacae
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[illegible]

<210> 6127
 <211> 151
 <212> PRT
 <213> Enterobacter cloacae

<400> 6127

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Ser Gly Asn Ser Ser His Gly Leu Ala Ala Arg Ile Met Ile Val Leu
1      5      10      15
Ser Arg Asn Val Ser Ile Pro Asp Asn Glu Leu Glu Ile Thr Ala Ile
20     25     30
Arg Ala Gln Gly Ala Gly Gly Gln His Val Asn Lys Ala Ser Thr Ala
35     40     45
Ile His Leu Arg Phe Asp Ile Arg Ala Ser Ser Leu Pro Glu Tyr Tyr
50     55     60
Lys Glu Ser Leu Leu Ala Ala Ser His His Leu Ile Thr Ser Glu Gly
65     70     75     80
Val Ile Val Ile Lys Ala Gln Glu Tyr Arg Ser Gln Glu Leu Asn Arg
85     90     95
Glu Ala Ala Thr Ala Arg Leu Val Ala Val Ile Lys Glu Leu Thr Ala
100    105    110
Val Gln Lys Ser Arg Arg Ala Thr Arg Pro Thr Arg Ala Ser Lys Glu
115    120    125
Arg Arg Leu Ser Ser Lys Ala Gln Lys Ser Thr Val Lys Ser Leu Arg
130    135    140
Gly Lys Val Arg His Pro
145    150

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<210> 6128
 <211> 188
 <212> PRT
 <213> Enterobacter cloacae

<400> 6128

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Phe Glu Arg Ser Ser Leu Met Ala Leu Lys Ala Thr Ile Tyr Lys Ala
1      5      10      15
Val Val Asn Val Ala Asp Leu Asp Arg Asn Gln Phe Leu Asp Ala Ser
20     25     30
Leu Thr Leu Ala Arg His Pro Ser Glu Thr Gln Glu Arg Met Met Leu
35     40     45
Arg Leu Leu Ala Trp Ile Lys Tyr Ala Asp Glu Arg Leu Gln Phe Thr
50     55     60
Arg Gly Leu Ser Ala Glu Asp Glu Pro Glu Ala Trp Leu Arg Asn Asp
65     70     75     80
His Leu Gly Ile Asp Leu Trp Ile Glu Leu Gly Leu Pro Asp Glu Arg
85     90     95
Arg Ile Lys Lys Ala Cys Thr Gln Ser Ala Glu Val Ala Leu Phe Ala
100    105    110
Tyr Asn Gln Arg Ala Ala Asp Ile Trp Trp Gln Gln Asn Lys Asn Lys
115    120    125
Cys Ala Gln Phe Lys Asn Leu Thr Val Trp Tyr Leu Asp Asp Glu Gln
130    135    140
Leu Ala Gln Leu Ser Ala Phe Ala Ser Arg Thr Met Ala Leu Gln Ala
145    150    155    160
Thr Ile Gln Asp Gly Ala Ile Trp Leu Ser Asp Ser Gln Asn Asn Leu
165    170    175
Glu Ile His Leu Thr Ala Trp Gln Pro Ala Ser
180    185

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<210> 6129

<211> 61
 <212> PRT
 <213> Enterobacter cloacae

<400> 6129

Arg	Pro	Thr	Asn	Gln	Asp	Ser	Pro	Pro	Asn	Ile	Pro	Thr	Ala	Arg	Lys
1			5						10					15	
Arg	Met	Gln	Ile	Asn	Ala	Ser	Lys	Met	Lys	Ala	Asn	Ala	Val	Leu	Leu
		20					25					30			
His	Thr	Cys	Glu	Val	Thr	Ser	Gly	Thr	Pro	Gly	Cys	Tyr	Arg	Gln	Ala
		35					40				45				
Val	Cys	Ile	Gly	Ser	Ala	Leu	Asn	Ile	Thr	Ala	Lys				
	50					55					60				

<210> 6130
 <211> 98
 <212> PRT
 <213> Enterobacter cloacae

<400> 6130

Ala	Leu	Ser	Ala	Pro	Leu	Ile	Lys	Lys	Ser	Ser	Pro	Cys	Arg	Val	Ser
1			5						10					15	
Arg	Val	Trp	Ser	Phe	Thr	Ala	Ala	Ala	Ser	Phe	Ile	Leu	Ser	Arg	Arg
		20					25					30			
Ile	Thr	Arg	Pro	Met	Gln	Cys	Ala	Gly	Leu	Arg	Arg	Ser	Ala	Ile	Tyr
		35					40				45				
Gly	Trp	Ser	Leu	Cys	Phe	Thr	Arg	Pro	Trp	Lys	Ala	Ala	Gly	Val	Pro
	50					55				60					
Leu	Cys	Val	Leu	Leu	Val	Trp	Ala	Glu	Met	Pro	Glu	Trp	Gly	Ser	Leu
65					70				75					80	
Pro	Pro	Ala	Gln	Pro	Phe	Val	Pro	Thr	Pro	Ser	Glu	Cys	Arg	Trp	Ser
			85						90					95	

Ser

<210> 6131
 <211> 595
 <212> PRT
 <213> Enterobacter cloacae

<400> 6131

Thr	Thr	Phe	Phe	Val	Ser	Gly	Trp	Cys	Phe	Ser	Leu	Phe	Gln	Ser	Ser
1				5					10					15	
Lys	Trp	Asn	Arg	Asn	Asn	Met	Arg	Thr	Ser	Gln	Tyr	Leu	Leu	Ser	Thr
		20					25					30			
Leu	Lys	Glu	Thr	Pro	Ala	Asp	Ala	Glu	Val	Ile	Ser	His	Gln	Leu	Met
		35					40				45				
Leu	Arg	Ala	Gly	Met	Ile	Arg	Lys	Leu	Ala	Ser	Gly	Leu	Tyr	Thr	Trp
	50					55				60					
Leu	Pro	Thr	Gly	Val	Arg	Val	Leu	Lys	Lys	Val	Glu	Asn	Ile	Val	Arg
65					70				75					80	
Glu	Glu	Met	Asn	Asn	Ala	Gly	Ala	Ile	Glu	Val	Leu	Met	Pro	Val	Val
			85						90				95		
Gln	Pro	Ser	Glu	Leu	Trp	Gln	Glu	Ser	Gly	Arg	Trp	Glu	Gln	Tyr	Gly
			100				105					110			
Pro	Glu	Leu	Leu	Arg	Ile	Ala	Asp	Arg	Gly	Asp	Arg	Pro	Phe	Val	Leu
	115					120					125				
Gly	Pro	Thr	His	Glu	Glu	Val	Ile	Thr	Asp	Leu	Ile	Arg	Asn	Glu	Leu
	130					135				140					
Ser	Ser	Tyr	Lys	Gln	Leu	Pro	Leu	Asn	Phe	Phe	Gln	Ile	Gln	Thr	Lys
145					150				155						160

Phe Arg Asp Glu Val Arg Pro Arg Phe Gly Val Met Arg Ser Arg Glu
 165 170 175
 Phe Leu Met Lys Asp Ala Tyr Ser Phe His Thr Ser Gln Glu Ser Leu
 180 185 190
 Gln Glu Thr Tyr Asp Lys Met Tyr Ala Ala Tyr Ser Lys Ile Phe Ser
 195 200 205
 Arg Met Gly Leu Asp Phe Arg Ala Val Gln Ala Asp Thr Gly Ser Ile
 210 215 220
 Gly Gly Ser Ala Ser His Glu Phe Gln Val Leu Ala Gln Ser Gly Glu
 225 230 235 240
 Asp Asp Val Ile Phe Ser Asp Ser Ser Asp Tyr Ala Ala Asn Ile Glu
 245 250 255
 Phe Ala Glu Ala Leu Ala Pro Lys Glu Pro Arg Gly Ala Ala Thr Gln
 260 265 270
 Glu Met Thr Leu Val Asp Thr Pro Asn Ala Lys Thr Ile Ala Glu Leu
 275 280 285
 Val Glu Gln Phe Thr Leu Pro Ile Glu Lys Thr Val Lys Thr Leu Leu
 290 295 300
 Val Lys Ser Ala Glu Gly Ser Ala Tyr Pro Leu Val Ala Leu Leu Val
 305 310 315 320
 Arg Gly Asp His Glu Leu Asn Glu Val Lys Ala Glu Lys Leu Pro Gln
 325 330 335
 Val Ala Ser Pro Leu Thr Phe Ala Thr Glu Ala Glu Ile Arg Ala Val
 340 345 350
 Val Asn Ala Gly Pro Gly Ser Leu Gly Pro Val Asn Met Pro Val Pro
 355 360 365
 Val Val Ile Asp Arg Thr Val Ala Ala Met Ser Asp Phe Ala Ala Gly
 370 375 380
 Ala Asn Ile Asp Gly Lys His Tyr Phe Gly Ile Asn Trp Asp Arg Asp
 385 390 395 400
 Val Ala Thr Pro Glu Val Ala Asp Ile Arg Asn Val Val Ala Gly Asp
 405 410 415
 Pro Ser Pro Asp Gly Lys Gly Thr Leu Met Ile Lys Arg Gly Ile Glu
 420 425 430
 Val Gly His Ile Phe Gln Leu Gly Asp Lys Tyr Ser Arg Ala Met Asn
 435 440 445
 Ala Ala Val Gln Gly Glu Asp Gly Arg Asn Gln Val Leu Thr Met Gly
 450 455 460
 Cys Tyr Gly Ile Gly Val Thr Arg Val Val Ala Ala Ile Glu Gln
 465 470 475 480
 Asn Tyr Asp Glu Arg Gly Ile Val Trp Pro Asp Asn Ile Ala Pro Phe
 485 490 495
 Gln Val Ala Ile Leu Pro Met Asn Met His Lys Ser Tyr Arg Val Gln
 500 505 510
 Glu Leu Ala Glu Lys Leu Tyr Ala Glu Leu Ser Ala Lys Gly Ile Asp
 515 520 525
 Val Leu Met Asp Asp Arg Lys Glu Arg Pro Gly Val Met Phe Ala Asp
 530 535 540
 Met Glu Leu Ile Gly Ile Pro His Thr Ile Val Ile Gly Asp Arg Asn
 545 550 555 560
 Leu Asp Ser Asp Glu Ile Glu Tyr Lys Tyr Arg Arg Asn Gly Glu Lys
 565 570 575
 Gln Met Ile Lys Thr Gly Asp Ile Leu Asp Tyr Leu Val Lys Ala Ile
 580 585 590
 Lys Gly
 595

<210> 6132

<211> 75

<212> PRT

<213> Enterobacter cloacae

<400> 6132

Val	Ser	Thr	Leu	Ala	Gly	Gly	Asp	Val	Asn	Asn	Tyr	Cys	Glu	Leu	Ile
1				5					10					15	
Arg	Arg	Arg	Tyr	Ala	Glu	Ile	Ala	Ser	Gly	Asp	Leu	Gly	Tyr	Ile	Pro
			20					25					30		
Asp	Ala	Leu	Gly	Cys	Val	Leu	Asn	Val	Leu	Asn	Glu	Val	Ala	Ser	Asp
		35					40				45				
Glu	Ser	Leu	Ser	Glu	Ser	Val	Ser	Gly	Thr	Ala	Gly	Phe	Gln	His	Ala
	50					55					60				
Ala	Pro	Asp	His	Thr	Val	Leu	Ser	Pro	Gly	Gly					
65					70					75					

<210> 6133

<211> 240

<212> PRT

<213> Enterobacter cloacae

<400> 6133

His	Tyr	Gly	Glu	Met	Ser	Ser	Phe	Gln	Phe	Glu	His	Ile	Gly	Val	Ile
1				5					10					15	
Arg	Ser	Pro	Tyr	Lys	Glu	Lys	Phe	Ala	Val	Pro	Arg	Gln	Pro	Gly	Leu
			20					25					30		
Val	Ile	His	Gly	Gly	Gly	Glu	Leu	His	Leu	Val	Ala	Pro	Tyr	Asn	Gln
		35					40					45			
Ala	Asp	Ala	Val	Arg	Gly	Leu	Glu	Ala	Phe	Ser	His	Leu	Trp	Val	Val
	50					55					60				
Phe	Val	Phe	His	Gln	Thr	Met	Glu	Gly	Gly	Trp	Arg	Pro	Thr	Val	Arg
65					70					75				80	
Pro	Pro	Arg	Leu	Gly	Asn	Ala	Arg	Met	Gly	Val	Phe	Ala	Thr	Arg	
				85				90					95		
Ser	Thr	Phe	Arg	Pro	Asn	Pro	Ile	Gly	Met	Ser	Leu	Val	Glu	Leu	Lys
			100					105					110		
Gly	Ile	Arg	Cys	Gln	Arg	Asp	Gln	Val	Ile	Leu	Glu	Leu	Gly	Ser	Leu
		115					120					125			
Asp	Leu	Val	Asp	Gly	Thr	Pro	Val	Ile	Asp	Ile	Lys	Pro	Tyr	Leu	Pro
	130					135					140				
Phe	Ala	Glu	Ala	Leu	Pro	Asp	Ala	Arg	Ala	Ser	Tyr	Ala	Gln	Asp	Ala
145					150					155				160	
Pro	Gln	Ala	Asp	Met	Pro	Val	His	Phe	Thr	Ser	Glu	Ile	Thr	Thr	Gln
			165					170						175	
Ile	Ser	Glu	Leu	Glu	Lys	Arg	Tyr	Pro	Arg	Leu	Arg	Asp	Phe	Ile	Val
		180						185					190		
Glu	Val	Leu	Ala	Gln	Asp	Pro	Arg	Pro	Ala	Tyr	Arg	Lys	Glu	Glu	Glu
		195					200					205			
Ala	Gly	Lys	Thr	Tyr	Ala	Val	Trp	Leu	Leu	Asp	Phe	Asn	Val	Arg	Trp
	210					215					220				
Arg	Val	Thr	Ala	Ala	Gly	Phe	Glu	Val	Phe	Ala	Leu	Glu	Pro	Arg	
225					230					235					240

<210> 6134

<211> 147

<212> PRT

<213> Enterobacter cloacae

<400> 6134

Glu	Arg	Asn	Trp	Gly	Met	Lys	Ser	Lys	Ile	Arg	Tyr	Val	Leu	Ser	Gly
1				5					10					15	
Phe	Val	Val	Leu	Cys	Ala	Phe	Ala	Gly	Val	Tyr	Lys	Ile	Leu	Asn	Asn
			20					25					30		
Val	Pro	Val	Lys	Pro	Asp	Leu	Leu	Asp	Phe	Thr	Gly	Asn	Thr	Phe	Lys

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<210> 6135
<211> 1226
<212> PRT
<213> Enterobacter cloacae
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<400> 6135															
Phe 1	Cys	Ser	Glu	Lys 5	Gln	Val	Phe	Val	Met 10	Arg	Lys	Ser	Gly	Leu 15	Gly
Leu	Ala	Leu	Leu 20	Phe	Ser	Leu	Ile	Ala 25	Pro	Ile	Lys	Ala	Val 30	Tyr	Ala
Glu	Ala	Ile 35	Met	Ile	Ser	Gly	Lys 40	Leu	Gln	Ala	Asp	Leu 45	Pro	Ala	Val
Ser	Phe 50	Asp	Pro	Gly	Pro	Gly 55	Asp	Phe	Val	Ala	Tyr 60	Val	Asn	Ser	Asn
Thr 65	Ile	Thr	Ala	Ser	Gly 70	Ala	Gly	Thr	Ala	Cys 75	Asn	Val	Thr	Val	Asp 80
Asp	Arg	Ala	Thr	Ser 85	Ser	Val	Asp	Asn	Leu 90	Val	Cys	Phe	Phe	Glu 95	Trp
Leu	Pro	Asn	Thr 100	Leu	Gly	Leu	Thr	Ser	Asn	Gly	Phe	Ile	Leu 110	Ser	Gly
Val	Pro	Tyr 115	Thr	Thr	Gly	Asp	Leu 120	Lys	Leu	Pro	Tyr	Lys 125	Ile	Ser	Tyr
Phe	Ser 130	Gly	Ser	Glu	Arg	Lys 135	Lys	Val	Glu	Ile	Val	Lys 140	Gly	Glu	Tyr
Ser 145	Ile	Lys	Ser	Val	Ala 150	Pro	Val	Lys	Pro	Thr 155	Ile	Thr	Gly	Leu	Lys 160
Ser	Ser	Leu	Asn	Gly 165	Leu	Val	Tyr	Asp	Gly	Phe 170	Ser	Phe	Lys	Ser	Tyr 175
Leu	Lys	Asp	Glu 180	Ala	Ile	Lys	Asp	Ile 185	Ala	Val	Ser	Val	Glu 190	Pro	Arg
Asn	Tyr 195	Ile	Gln	Tyr	Ile	Ser	Ile 200	Gly	Ser	Gly	Ser	Ala 205	Cys	Glu	Val
Pro	Ile 210	Gly	Gly	Thr	Ser	Cys 215	Thr	Ile	Glu	Val	Gly 220	Ser	Ile	Lys	Ala
Ser 225	Asp	Thr	Asp	Glu	Leu 230	Leu	Gly	Ser	Arg	Asp 235	Ile	Thr	Ile	Thr	Ala 240
Asn	Ser	Lys	Asn	Asn 245	Tyr	Phe	Ala	Pro	Pro	Glu 250	Ser	Lys	Lys	Leu	Val 255
Val	Asn	Trp	Asp 260	Tyr	Arg	Pro	Pro	Val 265	Val	Asp	His	Thr	Leu 270	Trp	Asn
Phe	Thr 275	Asp	Glu	Ala	Lys	Thr	Ile 280	Lys	Val	Gly	Gly	Gln 285	Asp	Ile	Tyr
Thr	Gly 290	Ala	Lys	Thr	Val	Ala 295	Val	Ala	Val	Lys	Val	Pro	Gln	Gln	Glu
Thr	Glu	Gly	Glu	Trp	Trp	Leu	Pro	Thr	Ala	Met	Ser	Leu	Thr	Met	Thr

305					310					315				320
Pro	Asp	Gly	Val	Phe	Lys	Pro	Thr	Thr	Lys	Val	Thr	Leu	Asp	Asp Gly
				325					330					335
Thr	Glu	Ile	Asp	Phe	Lys	Gln	Ser	Trp	Ala	Thr	Pro	Leu	Arg	Arg Thr
				340					345					350
Leu	Gln	Pro	Val	Ser	Gly	Pro	Gln	Lys	Val	Gly	Asp	Glu	Tyr	Leu Tyr
				355					360					365
Ile	Phe	Asp	Leu	Thr	Asp	Leu	Ile	Asn	Gly	Ser	Tyr	Ala	Ala	Thr Phe
				370					375					380
Thr	Val	Glu	Asn	Thr	Ser	Lys	Asn	Ser	Ser	Thr	Tyr	Thr	Glu	Pro Glu
385					390					395				400
Ser	Lys	Leu	Met	Leu	Ser	Asp	Asn	Pro	Thr	Leu	Met	Val	Leu	Lys Asp
				405						410				415
Gly	Gln	Val	Leu	Thr	Lys	Arg	Ala	Pro	Val	Tyr	Phe	Leu	Asn	Glu Ile
				420					425					430
Ile	Val	Ala	Ala	Phe	Gln	Gly	Gln	Ala	Gly	Val	Ala	Asp	Ile	Lys Ser
				435					440					445
Val	Thr	Ile	Asp	Asn	Lys	Val	Val	Ser	Leu	Thr	Pro	Thr	Asn	Tyr Lys
				450					455					460
Gly	Ile	Tyr	Tyr	Leu	Pro	Val	Gly	Asp	Asp	Leu	Ala	Val	Asn	Ser Asp
465					470					475				480
His	Glu	Ile	Thr	Val	Val	Ala	Glu	Asn	Leu	Tyr	Gly	Lys	Asn	Val Asn
				485						490				495
Phe	Ser	Thr	Val	Phe	Thr	Tyr	Gln	Pro	Thr	Gly	Phe	Thr	Leu	Lys Asn
				500					505					510
Leu	Glu	Lys	Asn	Val	Thr	Leu	Tyr	Ser	Arg	Val	Arg	Gln	Tyr	Thr Asp
				515					520					525
Leu	Leu	Ser	Gln	Thr	Ala	Gly	Asp	Lys	Cys	Thr	Leu	Phe	Thr	Thr Glu
				530					535					540
Glu	Asn	Ala	Asn	Ala	Tyr	Leu	Ala	Trp	Tyr	Gly	Glu	Lys	Ser	Asp Val
545					550					555				560
Thr	Ala	Cys	Tyr	Pro	Gln	Trp	Asn	Asn	Val	Pro	Asp	Gly	Leu	Glu Phe
				565						570				575
Tyr	Phe	Lys	Gly	Arg	Thr	Pro	Gly	Leu	Thr	Gly	Phe	Phe	Asn	Lys Thr
				580					585					590
Gly	Glu	Asn	Leu	Leu	Asp	Tyr	Gln	Val	Tyr	Met	Ile	Asn	Gly	Lys Gly
				595					600					605
Ser	Lys	Ala	Val	Ser	Ala	Arg	Asn	Arg	Arg	Thr	Leu	Thr	Thr	Gln Leu
				610						620				625
Pro	Tyr	Asn	Pro	Ile	Ile	Ser	Tyr	Lys	Lys	Asn	Lys	Val	Ile	Ala Gly
625					630					635				640
Ile	Asn	Pro	Asn	Thr	Ala	Leu	Ala	Tyr	Thr	Thr	Gly	Gly	Glu	Ala Ala
				645						650				655
Arg	Ile	Leu	Ala	Lys	Val	Val	Pro	Ala	Asp	Val	Thr	Met	Ile	Val Ser
				660					665					670
Gln	Asn	Gly	Ser	Glu	Ala	Val	Lys	Thr	Ser	Phe	Lys	Asn	Arg	Ser Ser
				675					680					685
Asn	Asn	Asp	Ala	Thr	Thr	Phe	Val	Gln	Arg	Val	Lys	Val	Ala	Ala Ala
				690					695					700
Pro	Leu	Trp	Thr	Lys	Asn	Val	Phe	Asp	Ile	Ala	Val	Glu	Tyr	Ser Lys
705					710					715				720
Asp	Pro	Glu	Leu	Arg	Thr	Thr	Asp	Thr	Leu	Asn	Val	Tyr	Thr	Val Pro
				725						730				735
Asp	Phe	Asn	Ile	Arg	Ala	Ser	Met	Glu	Val	Asp	Asp	Lys	Lys	Thr Ala
				740					745					750
Thr	Ser	Leu	Glu	Val	Pro	Leu	Lys	Val	Thr	Val	Gly	Arg	Tyr	Asn Asn
				755					760					765
Ser	Thr	Arg	Lys	Ser	Ala	Phe	Asp	Arg	Lys	Thr	Met	Gly	Glu	Trp Asp
				770					775					780
Val	Thr	Ile	Tyr	Ser	Gln	Lys	Ser	Val	Tyr	Gly	Lys	Asp	Pro	Glu Thr
785					790					795				800

Gly	Arg	Tyr	Lys	Thr	Thr	Tyr	Glu	Arg	Thr	Ala	Leu	Thr	Glu	Ala	Leu		
				805					810					815			
Pro	Val	Asn	Asp	Ala	Gly	Ile	Val	Glu	Thr	Lys	Ile	Lys	Ile	Glu	Asn		
			820					825					830				
Met	Asp	Leu	Gly	Asn	Met	Arg	Leu	Val	Gly	Val	Ala	Lys	Val	Arg	Ser		
		835					840					845					
Pro	Phe	Ser	Asp	Phe	Glu	Met	Lys	Arg	Glu	Thr	Ser	Ala	Val	Gly	Ile		
	850					855					860						
Arg	Ile	Tyr	Lys	Gly	Glu	Glu	Leu	Glu	Gly	Asn	Leu	Ser	Lys	Ser	Leu		
865				870						875					880		
Ile	Ile	Gly	Arg	Ile	Pro	Leu	Ser	Thr	Leu	Val	Ser	Phe	Lys	Ser	Ala		
				885					890						895		
Ser	Thr	Ala	Asn	Ser	Asp	Ala	Leu	Ala	Pro	Thr	Glu	Trp	Gln	Gln	Ser		
			900					905					910				
Ser	Asp	Asn	Gly	Gln	Thr	Trp	Thr	Met	Leu	Ser	Asp	Met	Thr	Gly	Lys		
		915					920					925					
Arg	Ser	Val	Ser	Ile	Lys	Lys	Thr	Glu	Val	Gly	Lys	Trp	Leu	Tyr	Arg		
	930					935					940						
Ala	Lys	Met	Thr	Asn	Lys	Phe	Thr	Ser	Lys	Ile	Ser	Tyr	Thr	Asp	Ala		
945				950						955					960		
Leu	Thr	Val	Val	Thr	Tyr	Lys	Gln	Pro	Lys	Leu	Ser	Ile	Asp	Val	Thr		
				965					970						975		
Asp	Ile	Leu	Gln	Gly	Ser	Asp	Ile	Pro	Val	Thr	Leu	Leu	Asp	Asn	Asp		
			980				985						990				
Glu	Pro	Ile	Pro	Ala	Gly	Thr	Ala	Glu	Val	Leu	Trp	Ser	Glu	Asp	Lys		
		995					1000					1005					
Val	Asn	Trp	Val	Gln	Gly	Asp	Thr	Thr	Tyr	Thr	Val	Ala	Ser	Ala	Asp		
	1010					1015					1020						
Thr	Leu	Pro	Ser	Thr	Ile	Tyr	Ala	Arg	Met	Arg	Tyr	Leu	Asp	Ser	Asp		
1025				1030						1035					1040		
Glu	Leu	Ala	Glu	Glu	Ser	Ser	Trp	Lys	Glu	Thr	Ser	Ala	Arg	Leu	Ala		
				1045					1050						1055		
Ala	Ala	Lys	Pro	Lys	Arg	Leu	Ser	Val	Ser	Val	Thr	Gly	Val	Ser	Lys		
			1060					1065					1070				
Val	Glu	Val	Gly	Gln	Lys	Val	Thr	Leu	Glu	Gly	Lys	Phe	Thr	Asn	Pro		
	1075						1080					1085					
Asn	Ser	Lys	Tyr	Gln	Asn	Gly	Asn	Asn	Val	Val	Glu	Glu	Trp	Lys	Thr		
	1090					1095					1100						
Pro	Asp	Gly	Gln	Thr	Phe	Lys	Gly	Ser	Ser	Leu	Ser	Val	Thr	Leu	Thr		
1105				1110						1115					1120		
Glu	Gln	Met	Leu	Asp	Lys	Gln	Gly	Tyr	Ala	Ala	Phe	Glu	Tyr	Ser	Ala		
				1125					1130						1135		
Trp	Leu	Ala	Asp	Asn	Lys	Glu	Asn	Thr	Val	Ser	Thr	Arg	Arg	Val	Ser		
			1140					1145					1150				
Val	Lys	Ser	Trp	Val	Tyr	Lys	Phe	Pro	Glu	Met	Lys	Ile	Ser	Ser	Lys		
	1155						1160					1165					
Leu	Lys	Tyr	Asp	Met	Ala	Pro	Thr	Thr	Leu	Arg	Val	Ala	Leu	Ser	Gly		
	1170					1175					1180						
Ile	Lys	Asp	Gly	Asp	Tyr	Pro	Gly	Val	Thr	Tyr	Ser	Arg	Glu	Trp	Ile		
1185				1190						1195					1200		
Tyr	Asp	Lys	Glu	Asn	Leu	Val	Ile	Thr	Thr	Asp	Val	Phe	Thr	Thr	Glu		
			1205					1210							1215		
Leu	Ala	Gly	Pro	Ala	Pro	Lys	Gly	Met	Gly								
			1220					1225									

<210> 6136

<211> 160

<212> PRT

<213> Enterobacter cloacae

<400> 6136

Leu Ile Ile Ile Ile Lys Ala Asp Arg Met Leu Ser Arg Asn Ser Leu
 1 5 10 15
 Ile His Gly Leu Arg Arg Asp Gln Leu Ile Gly Val Leu Thr Ile Ser
 20 25 30
 Glu Phe Pro Val Val Met Val Glu Ser His Phe Ile Gln Ser Glu Val
 35 40 45
 Met Gly Ile Lys Pro Val Ile Phe Asn Ile Asp Glu Leu Leu Val Ser
 50 55 60
 Ile Ser Pro Ile Ser Ser Leu Lys Phe Asp Trp Glu Trp Ala Pro Val
 65 70 75 80
 Asp Thr Ile Leu Ile Glu Val Ile Ile Pro Pro Val Glu Ser Asp Leu
 85 90 95
 Val Ser Ala Glu Asn Asp Phe Leu Arg Asp Ser Gly Ile Gly His Ile
 100 105 110
 Gln Cys Glu Pro Gly Gly Ala Ser Ile Arg Arg Thr Val Thr Phe Val
 115 120 125
 Gly Gly Ile Thr Ala Asp Asn Leu Leu Tyr Gln Leu Arg Leu Met Cys
 130 135 140
 Val Ser Ala Leu Lys Leu Leu Gly Glu Glu Leu Gly Asp Glu Val
 145 150 155 160

<210> 6137

<211> 199

<212> PRT

<213> Enterobacter cloacae

<400> 6137

Ile Ile Arg Arg Tyr Val Val Leu Ser Lys Val Thr Phe Tyr Met Ala
 1 5 10 15
 Thr Ser Asp Phe Ala Leu Lys Asn His Asn Val Lys Ala Phe Gly Gln
 20 25 30
 Asp Ala Ala Leu Val Ile Glu Met Asn Asn Glu Asp Val Ser Ser Ser
 35 40 45
 Lys Pro Ser Pro Phe Ser Asn Glu Ile Asp Asn Tyr Tyr Leu Thr Leu
 50 55 60
 His Val Ala Pro Arg Asn Ala Lys Lys Asp Tyr Asp Trp Gly Ser Asn
 65 70 75 80
 Arg Ser Val Leu Leu Lys Leu Ser Thr Asn Glu Val Met Gln Met Ala
 85 90 95
 Ser Val Phe Leu Arg Ile Met His Thr Leu Lys Ile Asp Lys Arg Lys
 100 105 110
 Thr Ser His His Gly His Val Val Tyr Lys Asn Ile Ser Val Thr Pro
 115 120 125
 Asn Glu Arg Gly Gly Leu Leu Leu Ser Ala Gly Ile Val Pro Val Asp
 130 135 140
 Lys Asp Gly Leu Lys Pro Phe Met His Met Val Pro Val Ser Gln Met
 145 150 155 160
 Asp Cys Val Lys Ile Gly Leu Tyr Ile Leu Gly Tyr Leu Ala Gln Lys
 165 170 175
 Thr Pro Trp Val Ser Ser Glu Ser Ile Ile Thr Ala Leu Arg Leu Ser
 180 185 190
 Glu Ala Lys Asn Ser Lys
 195

<210> 6138

<211> 173

<212> PRT

<213> Enterobacter cloacae

<400> 6138

Gln Phe Lys Leu Leu Asn Pro Leu Lys Gly Val Phe Met Ala Ile Pro

1				5					10				15
Ala	Tyr	Leu	Trp	Leu	Lys	Asp	Asp	Gly	Gly	Ala	Asp	Ile	Lys
			20					25					30
Val	Asp	Val	Gln	Asp	Arg	Glu	Gly	Ser	Ile	Glu	Val	Leu	Gly
		35					40					45	Phe
His	Gly	Leu	His	Leu	Pro	Thr	Asp	Asn	Met	Thr	Gly	Lys	Ile
	50					55					60		Thr
Thr	Arg	Val	His	Ser	Ala	Leu	Val	Phe	Glu	Lys	Glu	Phe	Asp
65					70					75			Ser
Ser	Pro	Tyr	Leu	Tyr	Lys	Ala	Val	Ala	Lys	Gly	Gln	Thr	Leu
				85					90				Lys
Ala	Glu	Phe	Lys	Trp	Tyr	Lys	Ile	Asn	Asp	Ala	Gly	Gln	Glu
			100					105					110
Tyr	Phe	Asn	Met	Lys	Leu	Glu	Asn	Val	Lys	Val	Val	Ser	Ile
		115					120					125	Cys
Met	Met	His	Asp	Val	Lys	Asn	Pro	Ala	Thr	Glu	Lys	His	Asn
	130					135					140		His
Glu	Ser	Val	Ala	Leu	Arg	Tyr	Glu	Lys	Ile	Thr	Trp	Lys	His
145					150					155			Cys
Gly	Asn	Ile	Ile	Phe	Ser	Asp	Glu	Trp	Lys	Asp	Arg		Asp
				165					170				160

<210> 6139

<211> 428

<212> PRT

<213> Enterobacter cloacae

<400> 6139

Ile	Cys	Glu	Leu	Asn	Met	Phe	Ala	Leu	Cys	Asp	Val	Asn	Ser	Phe	Tyr
1				5					10					15	
Ala	Ser	Cys	Glu	Thr	Val	Phe	Arg	Pro	Asp	Leu	Arg	Gly	Arg	Pro	Val
			20					25					30		
Val	Val	Leu	Ser	Asn	Asn	Asp	Gly	Cys	Val	Ile	Ala	Arg	Ser	Ala	Glu
		35					40					45			
Ala	Lys	Ala	Ala	Gly	Ile	Thr	Met	Gly	Glu	Pro	Phe	Phe	Lys	Gln	Lys
	50					55					60				
Glu	Leu	Phe	Arg	Arg	Ala	Gly	Val	Val	Cys	Phe	Ser	Ser	Asn	Tyr	Glu
65					70					75					80
Leu	Tyr	Ala	Asp	Met	Ser	Asn	Arg	Val	Met	Thr	Thr	Leu	Glu	Glu	Met
			85						90					95	
Ser	Pro	Arg	Val	Glu	Ile	Tyr	Ser	Ile	Asp	Glu	Ala	Phe	Cys	Asp	Leu
			100					105					110		
Thr	Gly	Val	Arg	Asn	Cys	Arg	Asp	Leu	Thr	Glu	Phe	Gly	Lys	Glu	Ile
	115						120					125			
Arg	Ala	Thr	Val	Leu	Lys	Arg	Thr	His	Leu	Thr	Val	Gly	Val	Gly	Ile
	130					135					140				
Ala	Gln	Thr	Lys	Thr	Leu	Ala	Lys	Leu	Ala	Asn	His	Ala	Ala	Lys	Lys
145					150					155					160
Trp	Gln	Arg	Gln	Thr	Gly	Gly	Val	Val	Asp	Leu	Ser	Asn	Ile	Asp	Arg
			165						170					175	
Gln	Arg	Arg	Leu	Leu	Ala	Leu	Val	Pro	Val	Glu	Asp	Val	Trp	Gly	Val
			180					185					190		
Gly	Arg	Arg	Ile	Ser	Lys	Lys	Leu	Asn	Ala	Met	Gly	Ile	Lys	Thr	Ala
	195					200					205				
Leu	Asp	Leu	Ser	Glu	Gln	Ser	Thr	Trp	Ile	Ile	Arg	Lys	His	Phe	Asn
	210					215					220				
Val	Val	Leu	Glu	Arg	Thr	Val	Arg	Glu	Leu	Arg	Gly	Glu	Pro	Cys	Leu
225					230					235					240
Glu	Leu	Glu	Glu	Phe	Ala	Pro	Ala	Lys	Gln	Glu	Ile	Val	Cys	Ser	Arg
				245					250					255	
Ser	Phe	Gly	Glu	Arg	Val	Thr	Glu	Tyr	Glu	Gln	Met	Arg	Gln	Ala	Ile

Figure 1. The effect of the number of iterations on the accuracy of the proposed algorithm. The accuracy is measured by the percentage of correct classification. The number of iterations is 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120, 130, 140, 150, 160, 170, 180, 190, 200, 210, 220, 230, 240, 250, 260, 270, 280, 290, 300, 310, 320, 330, 340, 350, 360, 370, 380, 390, 400, 410, 420, 430, 440, 450, 460, 470, 480, 490, 500, 510, 520, 530, 540, 550, 560, 570, 580, 590, 600, 610, 620, 630, 640, 650, 660, 670, 680, 690, 700, 710, 720, 730, 740, 750, 760, 770, 780, 790, 800, 810, 820, 830, 840, 850, 860, 870, 880, 890, 900, 910, 920, 930, 940, 950, 960, 970, 980, 990, 1000. The accuracy is 0.0, 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1.0.

<211> 158

<212> PRT

<213> Enterobacter cloacae

<400> 6140

1	Leu	Ser	Gln	Leu	Lys	Leu	Leu	Tyr	Ile	Lys	Thr	Val	Phe	Glu	Val
Cys	Asn	Met	Glu	Phe	Ile	Arg	Pro	Ala	Glu	Leu	Arg	Glu	Ile	Ile	Ala
Leu	Pro	Leu	Phe	Ser	Asp	Leu	Val	Gln	Cys	Gly	Phe	Pro	Ser	Pro	Ala
Ala	Asp	Tyr	Val	Glu	Glu	Arg	Ile	Asp	Leu	Asn	Glu	Leu	Leu	Val	Ala
His	Pro	Ser	Ser	Thr	Tyr	Phe	Val	Lys	Ala	Ala	Gly	Asp	Ser	Met	Ile
Glu	Ala	Gly	Ile	Ser	Asp	Gly	Asp	Leu	Leu	Val	Val	Asp	Ser	Ser	Arg
Thr	Ala	Glu	His	Gly	Asp	Ile	Val	Ile	Ala	Ala	Val	Glu	Gly	Glu	Phe
Thr	Val	Lys	Arg	Leu	Gln	Leu	Arg	Pro	Lys	Val	Gln	Leu	Asn	Pro	Met
Asn	Ser	Ala	Tyr	Ser	Pro	Ile	Val	Val	Gly	Ser	Glu	Asp	Thr	Leu	Asp
Val	Phe	Gly	Val	Val	Thr	Phe	Ile	Val	Lys	Ser	Ala	Ser			

<211> 316

<212> PRT

<213> Enterobacter cloacae

<400> 6141

Arg 1	Lys	Glu	Phe 5	Cys	Met	Asn	Val	Lys	Pro 10	Ser	Leu	Asp	Glu	Leu 15	Phe
Glu	Arg	Arg	Ile 20	Asn	Phe	Pro	Asp	Phe 25	Glu	Pro	Gln	Glu	Arg 30	Leu	Ala
Arg	Leu	Val 35	Gly	Leu	Asp	Glu	His 40	Lys	Asp	Arg	Leu	Ser 45	Lys	Ile	Leu

Gly	Leu	Leu	Val	Asn	Pro	Tyr	Gly	Ile	Gln	Glu	Trp	Ala	Lys	Lys	Tyr
50						55					60				
His	Pro	Asp	Ala	Arg	Ala	Ala	Val	Asp	Thr	Val	Leu	Arg	Arg	Pro	Pro
65					70					75					80
Leu	Val	Val	Leu	Ala	Gly	Asp	Val	Gly	Ser	Gly	Lys	Thr	Glu	Leu	Ala
				85					90					95	
Glu	Thr	Ile	Gly	Asp	Ala	Val	Ala	Arg	Gln	Glu	Asp	Ile	Asp	Ile	Thr
			100					105					110		
Leu	Tyr	Pro	Leu	Ser	Leu	Ala	Thr	Arg	Gly	Gln	Gly	Arg	Val	Gly	Glu
		115					120					125			
Met	Thr	Gln	Leu	Val	Ser	Ala	Ala	Phe	Asp	Tyr	Thr	Ile	Glu	Ala	Ala
		130				135					140				
Asp	Lys	Leu	Lys	Asn	Thr	Asn	Gly	Lys	Ala	Arg	Gly	Ala	Val	Leu	Leu
145				150						155					160
Leu	Ile	Asp	Glu	Ala	Asp	Ala	Leu	Ala	Gln	Ser	Arg	Glu	Asn	Ala	Gln
			165						170					175	
Met	His	His	Glu	Asp	Arg	Ala	Gly	Val	Asn	Ala	Phe	Ile	Arg	Gly	Ile
			180					185					190		
Asp	Arg	Ile	Ala	Asn	Gln	Lys	Leu	Pro	Ala	Ala	Val	Leu	Met	Cys	Thr
		195					200					205			
Asn	Arg	Leu	Lys	Ala	Leu	Asp	Pro	Ala	Val	Gln	Arg	Arg	Ala	Ala	Glu
		210				215					220				
Val	Leu	Thr	Phe	Ser	Arg	Pro	Asn	Asp	Glu	Gln	Arg	His	Tyr	Leu	Leu
225					230					235					240
His	Ser	Lys	Leu	Thr	Gly	Leu	Gly	Leu	Asn	Ser	Thr	Ala	Ile	Glu	Glu
				245					250					255	
Leu	Val	Arg	Leu	Thr	Gly	Pro	Arg	Asp	Thr	Asn	Ser	Pro	Gly	Phe	Thr
			260					265					270		
Phe	Ser	Asp	Ile	Thr	Gln	Arg	Leu	Ile	Pro	Ser	Ile	Ile	Leu	Thr	Ala
		275					280				285				
Tyr	Pro	Tyr	Ser	Ala	Val	Ser	Val	His	Ser	Ala	Leu	Gln	Val	Val	Asn
		290				295					300				
Lys	Met	Thr	Pro	Thr	Pro	Ala	Phe	Ile	Asp	Arg					
305					310					315					

<210> 6142

<211> 174

<212> PRT

<213> Enterobacter cloacae

<400> 6142

Asn	Ser	Asn	Leu	Leu	Asn	Asn	Arg	Thr	Ile	Cys	Pro	Gln	Val	Arg	Met
1				5					10					15	
His	Met	Ser	Gly	Phe	Gln	Glu	Trp	Leu	Leu	Ser	Lys	Ala	Thr	Gly	Asn
			20					25					30		
Tyr	Phe	Leu	Tyr	Ile	Lys	Arg	Leu	Ser	Ala	Asn	Asp	Thr	Gly	Ala	Thr
		35					40				45				
Gly	Gly	His	Gln	Val	Gly	Leu	Tyr	Ile	Pro	Ser	Gly	Ile	Val	Ala	Glu
	50					55					60				
Leu	Phe	Pro	Ser	Ile	Asp	Asn	Thr	Lys	Glu	Gln	Asn	Pro	Ser	Val	Phe
65					70					75					80
Leu	Asn	Ala	Thr	Tyr	Ser	Ser	His	Val	Cys	Ser	Asp	Ser	Glu	Ala	Arg
			85						90				95		
Ala	Ile	Tyr	Tyr	Asn	Gly	Ser	Phe	Phe	Gly	Lys	Thr	Arg	Asn	Glu	Lys
			100					105					110		
Arg	Ile	Thr	Arg	Trp	Gly	Pro	Gly	Ser	Pro	Leu	Gln	Asp	Pro	Glu	Asn
		115				120						125			
Thr	Gly	Gly	Leu	Ser	Ile	Leu	Ala	Phe	Glu	His	Glu	Pro	Gly	Ser	Asp
	130					135					140				
Ser	Lys	Asn	Val	Asp	Val	Trp	Val	Cys	Lys	Asn	Pro	Asp	Glu	Glu	Asp
145					150					155					160

Ile Val Glu Ser Ile Leu Gly Glu Ile Ile Pro Gly Ala Leu
 165 170

<210> 6143
 <211> 81
 <212> PRT
 <213> Enterobacter cloacae

<400> 6143
 Pro Lys Ser Leu Leu Ile Gln Leu Gly Pro Asn Pro Gly Thr Phe Arg
 1 5 10 15
 Arg Val Leu Asn Asn Lys Lys Phe His Leu Pro Phe Pro Asn Gln Lys
 20 25 30
 Pro Asn Glu Phe Gly Ser Leu Asn Thr Pro Gln Leu Pro Asn Gly Ser
 35 40 45
 Phe Pro Gly Val Pro Gly Ala Asn Thr Pro Ala Gly Val Leu Ser Ile
 50 55 60
 Pro Leu Leu Leu Pro Thr Gly Asp Ile Phe Pro Ala Arg Tyr Glu Leu
 65 70 75 80
 Val

<210> 6144
 <211> 105
 <212> PRT
 <213> Enterobacter cloacae

<400> 6144
 Thr Met Ile Cys Ala Ala Cys Arg Lys Pro Ala Val Gly Ala Gly Met
 1 5 10 15
 Thr Ile Thr Arg Ser Gly Val Met Arg Arg Ala Pro Leu Ala Met Arg
 20 25 30
 Leu Arg Ala Asn Ser Thr Trp Ala Met Leu Glu Phe Val Phe Asn Gly
 35 40 45
 Met Val Phe Leu Leu Leu Gly Leu Gln Leu Pro Gly Gln Leu Trp Lys
 50 55 60
 Ser Ser Ala Glu Leu Pro Ala Gln Ser Arg Phe Gln Asn Leu Gly Asn
 65 70 75 80
 Ser Gly Ile Pro Ile Asn Arg Asn Pro Cys Ser Ser Asn Leu Ala Leu
 85 90 95
 Ile Leu Val Leu Ser Gly Gly Phe
 100 105

<210> 6145
 <211> 98
 <212> PRT
 <213> Enterobacter cloacae

<400> 6145
 Cys Leu His Lys Pro His Glu Asp Ile Pro Met Lys Lys Arg Phe Ser
 1 5 10 15
 Asp Glu Gln Ile Ile Ser Ile Leu Arg Glu Ala Glu Ala Gly Val Pro
 20 25 30
 Ala Arg Glu Leu Cys Arg Lys His Ala Ile Ser Asp Ala Thr Phe Tyr
 35 40 45
 Ile Trp Arg Lys Lys Tyr Gly Gly Met Glu Val Pro Glu Val Lys Arg
 50 55 60
 Leu Lys Ser Leu Glu Glu Asn Ala Arg Leu Lys Lys Leu Leu Ala
 65 70 75 80
 Glu Ala Met Leu Asp Lys Glu Ala Leu Gln Val Ala Leu Gly Arg Lys
 85 90 95

Tyr

<210> 6146

<211> 703

<212> PRT

<213> Enterobacter cloacae

<400> 6146

```

Pro Glu Arg Gly Trp Glu Pro Ile Met Ser Asp Ser Lys Arg Thr Asn
1      5      10      15
Leu His Ala Gln Glu Asn Phe Tyr Arg Pro Ile Leu Glu Tyr Arg Ser
20      25      30
Ala Ser Ile Leu Leu Ile Cys Ser Val Ser Met Leu Tyr Met Gly Leu
35      40      45
Ser Ser Asp Gly Leu Asp Ile Ala Pro Ile Val Leu Phe Thr Ser Ile
50      55      60
Leu Leu Phe Leu Leu Cys Leu Tyr Arg Cys Lys Thr Ala Ala Pro Phe
65      70      75      80
Leu Met Ala His Trp Arg Val Phe Lys Arg His Phe Met Phe Val Ser
85      90      95
Leu Asp Ser Leu Arg Val Ile Asn Lys Ser Asn Phe Phe Ser Asn Glu
100     105     110
Arg Lys Tyr Arg Gln Leu Val Gln Asp Tyr Gln Asn Lys Asn Lys Asp
115     120     125
Ile Pro Glu Arg Lys Ser Tyr Phe Cys Asp Gly Phe Glu Trp Gly Pro
130     135     140
Glu His Ala Asp Arg Ala Tyr Gln Ile Ala Asn Leu Ser Ser Asp Lys
145     150     155     160
Arg Glu Ile Glu Leu Pro Phe Val Phe Asn Pro Ile Lys Arg His Phe
165     170     175
Asp Ala Met Ala Arg Lys Met Gly Gly Ser Asn Ala Ile Phe Ala Val
180     185     190
Glu Arg Arg Glu Pro Ile Phe Val Thr Glu Asp Asn Trp Phe Gly His
195     200     205
Thr Leu Ile Thr Gly Asn Val Gly Thr Gly Lys Thr Val Leu Gln Arg
210     215     220
Leu Leu Ser Ile Ser Met Leu His Leu Gly His Val Val Val Val Ile
225     230     235     240
Asp Pro Lys Asn Asp Ala Glu Trp Arg Glu Ser Leu Met Glu Glu Ala
245     250     255
Lys Thr Leu Gly Leu Pro Phe Tyr Lys Phe His Pro Gly Gln Pro Ala
260     265     270
Ser Ser Val Cys Ile Asp Val Cys Asn Thr Tyr Thr Asn Val Ser Asp
275     280     285
Leu Thr Ser Arg Leu Leu Ser Leu Val Thr Val Pro Gly Glu Val Asn
290     295     300
Pro Phe Val Gln Tyr Ala Lys Ala Leu Val Ser Asn Val Ile Ser Gly
305     310     315     320
Leu Ser Tyr Ile Glu Lys Lys Pro Ser Ile Tyr Leu Ile His Lys Asn
325     330     335
Met Lys Ser His Met Ser Ile Val Asn Leu Thr Val Lys Val Met Glu
340     345     350
Ser Cys Tyr Ala Arg Tyr Tyr Gly Tyr Asp Val Trp Thr Glu Lys Val
355     360     365
Lys Tyr Val Ala Asn Asp Thr Leu Pro Val Arg Phe Lys Arg Leu Ala
370     375     380
Glu Trp Phe Thr Ala His Phe Met Asn Tyr Glu Gly Ser Glu Gln Ile
385     390     395     400
Asp Trp Leu Asp Thr Val Ser Gln Leu Ile Asp Tyr Ser Met Ser Asp
405     410     415

```

Pro Glu His Met Ala Lys Met Thr Ala Gly Ile Met Pro Val Phe Asp
 420 425 430
 Met Leu Ile Glu Lys Pro Leu Asn Glu Leu Leu Ser Pro Asn Pro Asn
 435 440 445
 Ser Val Ser Ser Arg Glu Ile Val Thr Ser Glu Gly Met Phe Ser Thr
 450 455 460
 Gly Gly Val Leu Tyr Ile Ser Leu Asp Gly Leu Ser Asn Pro Asp Thr
 465 470 475 480
 Ala Ala Ala Ile Ser Gln Leu Ile Met Ser Asp Leu Thr Ser Cys Ala
 485 490 495
 Gly Ser Arg Tyr Asn Ala Gln Asp Gly Asp Met Ser Ala Asn Ser Arg
 500 505 510
 Ile Ser Ile Phe Val Asp Glu Ala His Ser Ala Ile Asn Asn Pro Met
 515 520 525
 Ile Asn Leu Leu Ala Gln Gly Arg Ala Ala Lys Ile Ala Leu Phe Ile
 530 535 540
 Cys Thr Gln Thr Ile Ser Asp Phe Ile Ala Ala Ala Ser Val Glu Thr
 545 550 555 560
 Ala Asn Arg Ile Thr Gly Leu Cys Asn Asn Tyr Ile Ser Leu Arg Val
 565 570 575
 Asn Asp Thr Pro Thr Gln Thr Leu Val Val Glu Asn Phe Gly Lys Ser
 580 585 590
 Ala Ile Ser Thr Asn Met Val Thr Tyr Thr Thr Gly Ser Glu Thr Ser
 595 600 605
 Leu Pro His Asn Asn Phe Ser Gly Ser Ile Ser Glu Arg Lys Gln Thr
 610 615 620
 Thr Leu Glu Glu Ser Ile Pro Lys Asp Leu Leu Gly Gln Val Pro Met
 625 630 635 640
 Phe His Ile Val Ala Arg Leu Gln Asp Gly Arg Lys Val Val Gly Gln
 645 650 655
 Ile Pro Ile Ala Val Ala Glu Lys Gln Met Lys Pro Asn Thr Thr Leu
 660 665 670
 Ser Glu Met Leu Phe Lys Lys Ala Gly Lys Val Thr Leu Arg Gln Asn
 675 680 685
 Leu Asp Ile Lys Asn Leu Asn Lys Phe Leu Arg Lys Leu His
 690 695 700

<210> 6147

<211> 871

<212> PRT

<213> Enterobacter cloacae

<400> 6147

Arg Pro Ser Thr Ser Arg Leu Pro Ala Ser Gly Leu Ser Ser Val Leu
 1 5 10 15
 Ser Pro Lys Ser His Leu Lys Arg Leu Phe Ile Gln His Gly Phe Gly
 20 25 30
 Lys Gln Leu Leu Glu Ser Gly Val Leu Phe Leu Lys Arg Leu Gln Ala
 35 40 45
 Leu Asn Phe Arg His Leu His Thr Ala Ile Leu Leu Thr Pro Asp Val
 50 55 60
 Lys Arg Gly Ile Gly Asn Gly Met Leu Ala Ala Glu Phe Thr Gly Gly
 65 70 75 80
 Tyr Pro Ser Phe Gly Phe Ala Glu Asn Thr Asp Asp Leu Phe Val Gly
 85 90 95
 Lys Thr Leu Leu His Gly Asp Val Leu Met Trp Leu Met Lys Thr Leu
 100 105 110
 Leu Thr Ser Gly Cys Thr Asn Gln Arg Gly Ala Gly Gln Arg Asp Pro
 115 120 125
 Ile Met Gly Leu Arg Ser Asn Asp Ala Ala Ala Arg Ala Ile Ser Thr
 130 135 140

Ile	Lys	His	Asn	Phe	Thr	Ser	Ile	Asn	Ile	Asn	Asn	Tyr	Asn	Ala	Lys
145					150				155						160
Pro	Met	His	Ile	Ile	Ile	Val	Asn	Gly	Glu	Val	Tyr	Leu	Asn	Glu	Asn
				165					170						175
Ala	Phe	Leu	Asp	Phe	Val	Leu	Asn	Asp	Phe	Glu	Leu	His	Lys	Tyr	Asn
			180					185					190		
Phe	Pro	Gln	Gly	Glu	Ala	Gly	Lys	Thr	Val	Leu	Val	Glu	Ser	Leu	Val
		195					200					205			
Gln	Arg	Gly	Tyr	Val	Glu	Pro	Tyr	Asp	Asp	Glu	Arg	Val	Val	His	Tyr
	210					215					220				
Phe	Ile	Pro	Gly	Ile	Tyr	Ser	Glu	Asn	Glu	Ile	Ser	Asn	Ile	Phe	Arg
225					230					235					240
Asn	Gly	Ile	Gly	Lys	Leu	Glu	Phe	Tyr	Asn	Leu	Leu	Lys	Leu	Arg	Trp
				245					250						255
Ile	Gly	Leu	Ile	Phe	Asp	Ser	Tyr	Lys	Ile	Pro	Asp	Ser	Val	Pro	Gly
			260					265					270		
Leu	Phe	Ser	Val	Asn	Ala	Asn	Lys	Asp	Phe	Ile	Tyr	Ile	Asp	Glu	Gln
		275					280					285			
Lys	Thr	Val	Thr	Glu	Tyr	Arg	Arg	Pro	Val	Pro	Gly	Arg	Asp	Val	Ile
	290					295					300				
Thr	Lys	Ile	Thr	Asp	Thr	Val	Glu	Thr	Ala	Val	Leu	Lys	Val	Asn	Asp
305					310					315					320
Leu	Gly	Arg	Ser	Ser	Ala	Ser	Ile	Asp	Val	Asp	Ile	His	Ser	Lys	Lys
				325					330					335	
Asn	Glu	Gly	Ser	Ser	Asp	Asp	Phe	Glu	Lys	Lys	Ala	Glu	Ser	Asp	Asn
			340					345					350		
Glu	Ile	Asp	Asn	Asp	Thr	Gln	Ile	Val	Lys	Ser	Glu	Gly	Glu	Glu	Ala
		355					360					365			
Ala	Asp	Pro	Val	Ile	Pro	Asp	Ile	Glu	Glu	Ser	Glu	Asp	Glu	Ser	Ala
	370					375					380				
Lys	Asp	Thr	Glu	Ser	His	Val	Leu	Val	Asn	Gln	Leu	His	Glu	Leu	Leu
385					390					395					400
Leu	Ser	Ala	Pro	Leu	Ser	Asn	Asp	Tyr	Ile	Val	Cys	Val	Asp	Ala	Val
			405						410					415	
Pro	Tyr	Leu	Asn	Ile	Asp	Thr	Thr	Met	Ala	Leu	Leu	Pro	Gly	Leu	Asp
			420					425					430		
Glu	Lys	Ala	Phe	Ser	Glu	Glu	Pro	Tyr	Phe	Gln	Leu	Thr	Phe	Arg	Glu
		435					440					445			
Gly	Ser	Leu	Asp	Gly	Met	Trp	Ile	Val	Arg	Asp	Ile	Asp	Asp	Leu	Arg
	450					455					460				
Leu	Val	Gln	Leu	Gly	Asp	Asn	Cys	Ala	Gly	Phe	Gln	Leu	Thr	Tyr	His
465				470						475					480
Glu	Pro	Arg	Arg	Pro	Thr	Thr	Leu	Lys	Ser	Leu	Phe	Asn	Thr	Ser	Met
				485					490					495	
Tyr	Gln	Ala	Leu	Val	Ile	Asn	Asp	Glu	Ser	Ser	Val	Glu	Asn	Ser	Ala
			500					505					510		
Pro	Arg	Pro	Lys	Gln	Thr	Leu	Glu	Leu	Pro	Pro	Pro	Arg	Val	Asn	Ala
		515					520					525			
Val	Glu	Glu	His	Ser	Gly	Asp	Val	Glu	Tyr	His	Gly	Thr	Asp	Ser	Ala
	530					535					540				
Ser	Ala	Thr	Gly	Pro	Leu	Lys	Thr	Glu	Ala	Val	Glu	Tyr	Glu	His	Tyr
545					550					555					560
Gln	His	Leu	Phe	Glu	Lys	Glu	Asp	Glu	Glu	His	Glu	Ile	Ile	Asp	Tyr
				565					570					575	
Thr	Asp	Phe	Ser	Gln	Leu	Ser	Val	Ser	Arg	Pro	Glu	Val	Gly	Ser	Cys
			580					585					590		
Ala	Thr	Ser	Ser	Ser	Val	His	Asn	Glu	Lys	Leu	Leu	Ser	Glu	Pro	Ser
		595					600					605			
Glu	Leu	Pro	Glu	Leu	Asn	Arg	Glu	Gln	Asn	Ala	Asp	Pro	Gln	Gly	Thr
	610					615					620				
Asn	Glu	Arg	Ser	Met	Asp	Val	Ser	Val	Gly	Gln	Glu	Asn	Ser	Glu	Pro

625					630					635					640
Asp	Thr	Glu	Gly	Asn	Cys	Pro	Pro	Pro	Ala	Glu	Val	Val	Tyr	Ser	Gln
				645					650					655	
Thr	Glu	Ala	Ala	Ala	Thr	Ser	Val	Met	Ala	Ser	Glu	Glu	Pro	Ala	Leu
				660					665					670	
Pro	Pro	Val	Leu	Glu	Glu	Ser	Asn	Gly	Glu	His	Ala	Pro	Thr	Asp	Ala
				675				680						685	
Lys	Gly	His	His	Leu	Ser	Pro	Ala	Leu	Ala	Arg	Leu	Phe	Ala	Pro	Thr
	690					695					700				
Ala	Pro	Val	Glu	Lys	Gln	Asn	Pro	Lys	Arg	Asn	Arg	Asn	Lys	Ser	Ser
705					710					715					720
Asp	Lys	Ala	Glu	Val	Gln	Lys	Pro	Ala	Ser	Pro	Val	Ser	Gly	His	Asn
				725					730					735	
Leu	Asn	Ser	Lys	Val	Phe	Ala	Ser	Thr	Glu	Ser	Asp	Gln	Asn	Gly	Glu
			740					745					750		
Phe	Ser	Leu	Ile	Ser	Glu	Gly	Asp	Val	Thr	Glu	Leu	Glu	Phe	Val	Glu
			755				760						765		
Ile	Ala	Leu	Val	Leu	His	Gln	Ile	Leu	Ser	Lys	Met	Glu	Val	Ala	Phe
	770					775						780			
Lys	Arg	Lys	Arg	Lys	Asn	Arg	Phe	Met	Val	Ser	Thr	Pro	Asn	Thr	Leu
785					790					795					800
Tyr	Leu	Thr	Gln	Ser	Cys	Val	Glu	Lys	Phe	Gly	Ser	Gln	Leu	Glu	Ala
				805					810					815	
Gln	Asp	Leu	Phe	Asn	Lys	Leu	Pro	Gln	Tyr	Leu	Val	Asn	Ser	Gly	Ala
			820					825					830		
Val	Ile	Asn	Thr	Lys	Cys	His	Ala	Phe	Asn	Met	Pro	Thr	Leu	Leu	Ala
			835				840					845			
Ala	Ser	Asp	Arg	Ala	Lys	Val	Asp	Ile	Glu	Arg	Ile	Ile	Asn	Asn	Leu
	850					855					860				
Lys	Glu	Ala	Gly	Asn	Leu										
865					870										

<210> 6148

<211> 256

<212> PRT

<213> Enterobacter cloacae

<400> 6148

Ser	Ser	Ser	Gln	His	Tyr	Glu	Ser	Phe	Ile	Ser	Thr	Gly	Ser	Thr	Met
1				5					10					15	
Ile	Glu	Ile	Glu	Thr	Arg	Gln	Leu	Ser	Glu	His	Glu	Ile	Ile	His	Ala
			20					25					30		
Phe	Pro	Ala	Gly	Lys	Gly	Glu	Gln	Pro	Leu	Pro	Thr	Val	Val	Phe	Tyr
		35					40					45			
His	Gly	Phe	Leu	Ser	Ser	Lys	Leu	Val	Tyr	Ser	Tyr	Phe	Ala	Val	Ala
	50					55					60				
Leu	Ala	Gln	Ala	Gly	Phe	Arg	Val	Val	Met	Pro	Asp	Ala	Pro	Asn	His
65					70					75					80
Gly	Ala	Arg	Phe	Thr	Gly	Asp	Glu	Gln	Ala	Arg	Leu	Gly	Leu	Phe	Trp
				85				90						95	
Gln	Thr	Leu	His	Gly	Asn	Leu	Thr	Glu	Phe	Ala	Gly	Leu	Arg	Asp	Ala
			100					105						110	
Leu	Leu	Gln	Ala	Gly	Leu	Val	Glu	Gly	Lys	Arg	Leu	Ala	Val	Ala	Gly
		115					120					125			
Ala	Ser	Met	Gly	Gly	Met	Thr	Ala	Leu	Gly	Ile	Met	Ala	Arg	His	Pro
	130					135					140				
Glu	Val	Thr	Ser	Val	Ala	Cys	Leu	Met	Gly	Ser	Gly	Tyr	Phe	Thr	Ser
145					150					155					160
Leu	Ala	Lys	Thr	Leu	Phe	Pro	Pro	Gln	Ala	Pro	Gln	Glu	Ile	Glu	Thr
				165				170						175	
Leu	Leu	Ser	Glu	Trp	Asp	Val	Ser	His	Ala	Leu	Ser	Gln	Leu	Ala	Asp

			180					185				190					
Arg	Pro	Leu	Leu	Leu	Trp	His	Gly	Asp	Ala	Asp	Asp	Val	Val	Pro	Thr		
		195					200					205					
Gly	Glu	Thr	Phe	Arg	Leu	Gln	Gln	Ala	Leu	Gln	Arg	Glu	Gly	Leu	Asp		
	210					215					220						
Ser	Asn	Leu	Thr	Cys	Leu	Trp	Gly	Ala	Gly	Val	Arg	His	Arg	Ile	Thr		
225					230					235					240		
Pro	Glu	Ala	Leu	Glu	Ala	Thr	Val	Ala	Phe	Phe	Arg	Gln	His	Leu			
				245					250					255			

<210> 6149

<211> 253

<212> PRT

<213> Enterobacter cloacae

<400> 6149

Leu	Met	Thr	Glu	Ala	Gln	Arg	His	Gln	Ile	Leu	Leu	Glu	Leu	Leu	Ala		
1				5				10						15			
Gln	Thr	Gly	Phe	Ile	Thr	Val	Glu	Lys	Val	Ile	Glu	Arg	Leu	Gly	Ile		
			20					25					30				
Ser	Pro	Ala	Thr	Ala	Arg	Arg	Asp	Ile	Asn	Lys	Leu	Asp	Glu	Ser	Gly		
		35					40					45					
Lys	Leu	Lys	Lys	Val	Arg	Asn	Gly	Ala	Glu	Ala	Ile	Ser	Gln	Gln	Arg		
	50					55					60						
Pro	Arg	Trp	Thr	Pro	Met	Asn	Ile	His	Gln	Ala	Gln	Asn	His	Asp	Glu		
65					70					75					80		
Lys	Val	Arg	Ile	Ala	Arg	Ala	Ala	Ser	Gln	Leu	Val	Asn	Pro	Gly	Glu		
				85					90					95			
Ser	Val	Val	Ile	Asn	Cys	Gly	Ser	Thr	Ala	Phe	Leu	Leu	Gly	Arg	Glu		
			100					105					110				
Met	Cys	Gly	Lys	Pro	Val	Gln	Ile	Ile	Thr	Asn	Tyr	Leu	Pro	Leu	Ala		
		115					120					125					
Asn	Tyr	Leu	Ile	Asp	Gln	Glu	His	Glu	Ser	Val	Val	Ile	Met	Gly	Gly		
	130				135						140						
Gln	Tyr	Asn	Lys	Ser	Gln	Ser	Ile	Thr	Leu	Ser	Pro	Gln	Asp	Ser	Glu		
145					150					155					160		
Asn	Ser	Leu	Tyr	Ala	Gly	His	Trp	Met	Phe	Thr	Ser	Gly	Lys	Gly	Leu		
				165					170					175			
Thr	Ala	Asp	Gly	Leu	Tyr	Lys	Thr	Asp	Met	Leu	Thr	Ala	Met	Ala	Glu		
			180					185					190				
Gln	Asn	Met	Leu	Asn	Val	Val	Gly	Lys	Leu	Val	Val	Leu	Val	Asp	Ser		
		195					200					205					
Ser	Lys	Val	Gly	Glu	Arg	Ala	Gly	Met	Leu	Phe	Ser	Arg	Ala	Glu	Gln		
	210					215					220						
Ile	Ser	Met	Val	Ile	Thr	Gly	Lys	Asn	Ala	Asn	Pro	Glu	Ile	Leu	Ser		
225					230					235					240		
Lys	Leu	Glu	Asp	Gln	Gly	Val	Thr	Val	Leu	Arg	Val						
				245					250								

<210> 6150

<211> 77

<212> PRT

<213> Enterobacter cloacae

<400> 6150

Pro	Asp	Pro	Ile	Arg	Gln	Ala	Thr	Asp	Val	Thr	Ser	Gly	Cys	Leu	Ala		
1				5					10					15			
Met	Ile	Pro	Ser	Ala	Val	Ile	Pro	Pro	Ile	Asp	Ala	Pro	Ala	Thr	Ala		
			20					25					30				
Ser	Arg	Phe	Pro	Ser	Thr	Ser	Pro	Ala	Cys	Lys	Ser	Ala	Ser	Arg	Ser		
		35						40					45				

Pro Ala Asn Ser Val Arg Leu Pro Cys Ser Val Cys Gln Asn Ser Pro
 50 55 60
 Ser Arg Ala Cys Ser Ser Pro Val Lys Arg Ala Pro
 65 70 75

<210> 6151
 <211> 149
 <212> PRT
 <213> Enterobacter cloacae

<400> 6151
 Met Ile His Asn Val Glu Ser Trp Ile Thr Val Ser Arg Tyr Phe His
 1 5 10 15
 Ser Lys Ser Thr Ser Gln Ile Thr Leu Arg Glu His Ser Pro Lys Thr
 20 25 30
 Lys Phe Ala Asp Asn Tyr Thr Met Thr Ile Arg Lys Arg Asp Arg Phe
 35 40 45
 Met Arg Arg Leu Thr Ala Leu Leu Leu Val Ser Leu Leu Ser Gly Cys
 50 55 60
 Ser Val Leu Gln Gly Thr Pro Glu Pro Ala Pro Val Thr Asp His
 65 70 75 80
 Pro Gln Glu Ile Arg Arg Asn Gln Thr Glu Gly Leu Gln Arg Leu Gly
 85 90 95
 Thr Val Ser Ala Met Val Arg Gly Ser Pro Asp Asp Ala Glu Asp Ala
 100 105 110
 Ile Glu Ala Gln Ala Val Ala Ala Lys Ala Asp Tyr Tyr Val Ile Thr
 115 120 125
 Met Ile Asp Glu Thr Ile Ile Thr Gly Gln Trp Tyr Ala Gln Gly Ile
 130 135 140
 Leu Tyr Arg Lys
 145

<210> 6152
 <211> 111
 <212> PRT
 <213> Enterobacter cloacae

<400> 6152
 Val Tyr Ser Arg Arg Ile Ala Arg Arg Ile Pro Glu Thr Arg Glu Lys
 1 5 10 15
 Glu Leu Thr Met Lys Arg Thr Leu Ala Leu Thr Thr Leu Leu Leu Ser
 20 25 30
 Ala Gly Leu Leu Ser Thr Thr Ala Gln Ser Ala Glu Phe Ala Ser Ala
 35 40 45
 Asp Cys Val Thr Gly Leu Asn Glu Ile Gly Gln Ile Ser Val Asn Asn
 50 55 60
 Ile Thr Gly Ser Pro Gln Asp Val Glu Arg Val Val Ala Leu Lys Ala
 65 70 75 80
 Asp Glu Gln Gly Ala Ser Trp Tyr Arg Ile Val Gln Met Gln Glu Asp
 85 90 95
 His His Val Asn His Trp Arg Val Gln Ala Ile Leu Tyr Ala
 100 105 110

<210> 6153
 <211> 394
 <212> PRT
 <213> Enterobacter cloacae

<220>
 <221> UNSURE
 <222> (366)

<220>
 <221>UNSURE
 <222>(392)

<400> 6153

Glu	Gly	Gly	Ala	Met	Glu	Gln	Thr	Trp	Arg	Trp	Tyr	Gly	Pro	Asn	Asp
1				5					10					15	
Pro	Val	Ser	Leu	Asp	Asp	Val	Arg	Gln	Ala	Gly	Ala	Thr	Gly	Val	Val
			20					25					30		
Thr	Ala	Leu	His	His	Ile	Pro	Asn	Gly	Gln	Val	Trp	Pro	Val	Glu	Glu
		35					40					45			
Ile	Gln	Lys	Arg	Gln	Ala	Gln	Leu	Ala	Glu	Lys	Gly	Leu	Thr	Trp	Ser
	50					55					60				
Val	Val	Glu	Ser	Ile	Pro	Val	His	Glu	Asp	Ile	Lys	Thr	His	Ser	Gly
65				70					75						80
Glu	Cys	Asp	Thr	Trp	Ile	Ala	Asn	Tyr	Gln	Gln	Ser	Ile	Arg	Asn	Leu
				85					90					95	
Ala	Ala	Cys	Gly	Ile	Asp	Thr	Val	Cys	Tyr	Asn	Phe	Met	Pro	Ile	Leu
			100					105					110		
Asp	Trp	Thr	Arg	Thr	Asp	Leu	Glu	Tyr	Val	Met	Ala	Asp	Gly	Ser	Lys
		115					120						125		
Ala	Leu	Arg	Phe	Asp	Gln	Ile	Ala	Phe	Ala	Ala	Phe	Glu	Leu	His	Ile
		130				135					140				
Leu	Lys	Arg	Pro	Gly	Ala	Glu	Ala	Asp	Tyr	Thr	Ala	Glu	Glu	Gln	Gln
145					150					155					160
Gln	Ala	Leu	Ala	Trp	Phe	Asn	Ala	Ala	Ser	Glu	Ala	Asp	Ile	Glu	Lys
				165					170					175	
Leu	Val	Arg	Asn	Ile	Ile	Ala	Gly	Leu	Pro	Gly	Ala	Glu	Glu	Gly	Tyr
			180					185					190		
Thr	Leu	Asp	Gln	Phe	Arg	Ala	Arg	Leu	Ala	Glu	Tyr	Gly	Asp	Ile	Asp
		195					200					205			
Lys	Asn	Gln	Leu	Arg	Glu	Asn	Met	Ala	His	Phe	Leu	Arg	Ala	Ile	Val
	210					215					220				
Pro	Val	Ala	Glu	Glu	Val	Gly	Val	Arg	Leu	Ala	Val	His	Pro	Asp	Asp
225					230					235					240
Pro	Pro	Arg	Pro	Ile	Leu	Gly	Leu	Pro	Arg	Ile	Val	Ser	Thr	Ile	Glu
				245					250					255	
Asp	Met	Gln	Trp	Leu	Lys	Glu	Thr	Val	Asp	Ser	Ile	Tyr	Asn	Gly	Phe
			260					265					270		
Thr	Met	Cys	Thr	Gly	Ser	Tyr	Gly	Val	Arg	Ala	Asp	Asn	Asp	Leu	Val
		275					280					285			
Arg	Met	Ile	Glu	Thr	Phe	Gly	Asp	Arg	Ile	His	Phe	Thr	His	Leu	Arg
	290					295					300				
Ala	Thr	Cys	Arg	Glu	Glu	Asn	Pro	Lys	Thr	Phe	His	Glu	Ala	Ala	His
305					310					315					320
Leu	Gly	Gly	Asp	Val	Asn	Met	Val	Ala	Val	Val	Asp	Ala	Ile	Leu	Ser
				325					330					335	
Glu	Lys	Val	Arg	Arg	Lys	Gln	Ala	Gly	Asp	Val	Arg	Pro	Ile	Pro	Phe
			340					345					350		
Arg	Pro	Asp	His	Gly	His	Gln	Met	Leu	Asp	Asp	Leu	Arg	Xaa	Lys	Thr
		355					360					365			
Asn	Pro	Gly	Tyr	Ser	Ala	Ile	Gly	Arg	Leu	Lys	Arg	Met	Ala	Glu	Leu
	370					375						380			
Pro	Gly	Ile	Gln	Leu	Ala	Leu	Xaa	Met	Thr						
385					390										

<210> 6154

<211> 494

<212> PRT

<213> Enterobacter cloacae

<400> 6154

Ser	Gly	Val	Tyr	Tyr	Met	Lys	Thr	Ile	Ala	Ser	Thr	Ala	Leu	Pro	Ala
1				5					10					15	
His	Val	Gln	Gln	Pro	Arg	Tyr	Asp	Arg	Glu	Gln	Leu	Arg	Ser	Arg	Ile
			20					25					30		
Val	His	Phe	Gly	Phe	Gly	Ala	Phe	His	Arg	Ala	His	Gln	Ala	Leu	Leu
		35					40					45			
Thr	Asn	Arg	Val	Leu	Asn	Ala	Arg	Gly	Gly	Asp	Trp	Gly	Ile	Cys	Glu
	50					55					60				
Ile	Ser	Leu	Phe	Ser	Gly	Asp	Val	Leu	Met	Arg	Gln	Leu	Arg	Ala	Gln
65					70					75					80
Asp	His	Leu	Phe	Thr	Val	Leu	Glu	Lys	Gly	Ala	Glu	Gly	Asn	Gln	Pro
				85					90					95	
Ile	Ile	Ile	Gly	Ala	Val	Lys	Glu	Cys	Leu	Asn	Ala	Lys	Leu	Asp	Ser
			100					105					110		
Leu	Ala	Ala	Ile	Ile	Glu	Lys	Phe	Cys	Glu	Pro	Gln	Val	Ala	Ile	Val
		115					120					125			
Ser	Leu	Thr	Ile	Thr	Glu	Lys	Gly	Tyr	Cys	Ile	Asp	Pro	Ala	Thr	Gly
	130					135					140				
Lys	Leu	Asp	Met	Gln	Asn	Ser	Arg	Ile	Leu	His	Asp	Leu	Glu	His	Pro
145					150					155					160
Ser	Glu	Pro	His	Ser	Ala	Pro	Gly	Ile	Leu	Val	Glu	Ala	Leu	His	Arg
				165					170					175	
Arg	Arg	Glu	Arg	Gly	Leu	Pro	Ala	Phe	Thr	Val	Leu	Ser	Cys	Asp	Asn
			180					185					190		
Ile	Pro	Asp	Asn	Gly	His	Val	Val	Lys	Asn	Ala	Val	Leu	Gly	Met	Ala
		195					200					205			
Gly	Lys	Arg	Ser	Ala	Glu	Leu	Ala	Ala	Trp	Ile	Glu	Ala	His	Val	Ser
	210					215					220				
Phe	Pro	Gly	Thr	Met	Val	Asp	Arg	Ile	Val	Pro	Ala	Ala	Thr	Asp	Ala
225					230					235					240
Ser	Leu	Ala	Glu	Ile	Thr	Gln	Glu	Leu	Gly	Val	Glu	Asp	Pro	Cys	Ala
				245					250					255	
Ile	Ser	Cys	Glu	Pro	Phe	Ile	Gln	Trp	Val	Val	Glu	Asp	Asn	Phe	Val
			260					265					270		
Ala	Gly	Arg	Pro	Glu	Trp	Glu	Val	Ala	Gly	Val	Gln	Met	Val	Glu	Asp
		275					280					285			
Val	Leu	Pro	Trp	Glu	Gln	Met	Lys	Leu	Arg	Met	Leu	Asn	Gly	Ser	His
	290					295					300				
Ser	Phe	Leu	Ala	Tyr	Leu	Gly	Tyr	Leu	Ala	Gly	Tyr	Ala	His	Ile	Asn
305					310					315					320
Glu	Cys	Met	Gln	Asp	Asp	Ser	Phe	Arg	Glu	Ala	Ala	Arg	Arg	Leu	Met
				325					330					335	
Leu	Asn	Glu	Gln	Ala	Pro	Thr	Leu	Arg	Ile	Thr	Asn	Val	Asp	Leu	Thr
			340					345					350		
Ala	Tyr	Ala	Asp	Ser	Leu	Leu	Asn	Arg	Phe	Ala	Asn	Pro	Ala	Leu	Gln
		355					360					365			
His	Arg	Thr	Trp	Gln	Ile	Ala	Met	Asp	Gly	Ser	Gln	Lys	Leu	Pro	Gln
	370					375					380				
Arg	Met	Leu	Asp	Gly	Ile	Arg	Val	His	Leu	Glu	Leu	Asn	Thr	Ala	Trp
385					390					395					400
Pro	Leu	Leu	Ala	Leu	Gly	Val	Ala	Gly	Trp	Met	Arg	Tyr	Val	Ser	Gly
				405					410					415	
Thr	Asp	Glu	Gln	Gly	Asn	Ala	Ile	Asp	Val	Arg	Asp	Pro	Leu	Ser	Asp
			420					425					430		
Lys	Phe	Gln	Ala	Ile	Val	Ala	Thr	Ser	Ser	Asp	Ala	Glu	Arg	Val	Ser
		435					440					445			
Ala	Leu	Leu	Thr	Leu	Asn	Glu	Ile	Phe	Gly	Asp	Asp	Leu	Pro	Gln	Asn
	450					455					460				
Pro	Val	Phe	Val	Glu	Ala	Ile	Thr	Gly	Ala	Tyr	Gln	Arg	Leu	Val	Arg

465 470 475 480
 Leu Gly Ala His Gln Ala Val Ile Glu Thr Leu Lys Ile
 485 490

<210> 6155
 <211> 342
 <212> PRT
 <213> Enterobacter cloacae

<400> 6155
 Val Val Val Thr Thr Ser Gln Leu Phe Ile Gly Ala His Val Thr Lys
 1 5 10 15
 Thr Asn Leu Ile Thr Gly Phe Leu Gly Ser Gly Lys Thr Thr Ser Ile
 20 25 30
 Leu His Leu Leu Ala Asn Lys Asp Pro Ala Glu Lys Trp Ala Val Leu
 35 40 45
 Val Asn Glu Phe Gly Glu Val Gly Ile Asp Gly Ala Leu Leu Ala Asp
 50 55 60
 Ser Gly Ala Met Val Lys Glu Ile Pro Gly Gly Cys Met Cys Cys Val
 65 70 75 80
 Asn Gly Leu Pro Met Gln Val Gly Leu Asn Thr Leu Leu Arg Gln Gly
 85 90 95
 Lys Pro Asp Arg Leu Pro Ile Glu Pro Thr Gly Met Gly His Pro Lys
 100 105 110
 Gln Ile Leu Asp Leu Leu Thr Ala Pro Val Tyr Glu Pro Trp Leu Glu
 115 120 125
 Leu Arg Ala Thr Leu Cys Leu Leu Asp Pro Arg Gln Leu Leu Asp Glu
 130 135 140
 Lys Thr Ile Asn Asn Asp Asn Phe Arg Asp Gln Leu Ala Ser Ala Asp
 145 150 155 160
 Ile Ile Val Ala Asn Lys Ser Asp Arg Ala Thr Ala Glu Ser Gln Ala
 165 170 175
 Ala Phe Glu Ser Trp Trp Gln Gln Ala Gly Gly Gly Arg Gln Tyr Val
 180 185 190
 Gln Thr Thr Gln Gly Asn Ile Asp Gly Ala Leu Leu Asp Leu Pro Arg
 195 200 205
 Leu Asn Gln Thr Gln Leu Pro Ala Ser Ala Glu His Ser His Ser His
 210 215 220
 Gly Thr Lys Gln Gly Leu Ala Ala Leu Ser Leu Pro Glu His Gln Arg
 225 230 235 240
 Trp Arg Arg Asn Leu Asn Ser Gly Gln Gly His Gln Ala Cys Gly Trp
 245 250 255
 Ile Phe Asp Ala Asp Thr Val Phe Asp Thr Ile Gly Ile Leu Glu Trp
 260 265 270
 Ala Arg Leu Ala Pro Val Glu Arg Val Lys Gly Ile Met Arg Thr Pro
 275 280 285
 Asp Gly Leu Val Arg Ile Asn Arg Gln Gly Glu Asp Phe Phe Ile Glu
 290 295 300
 Thr Gln Asn Val Ala Pro Pro Asp Ser Arg Ile Glu Leu Ile Ser Ala
 305 310 315 320
 Val Asn Thr Asp Trp Asn Ala Leu Gln Ser Ser Leu Leu Lys Leu Arg
 325 330 335
 Leu Ser Leu Gly Gly
 340

<210> 6156
 <211> 245
 <212> PRT
 <213> Enterobacter cloacae

<400> 6156

Phe His Thr Leu Leu Lys Thr Met Thr Thr Arg Leu Pro Ala Ile Leu
 1 5 10 15
 Leu Leu Asn Ala Ala Gly Leu Ala Leu Phe Phe Ser Trp Tyr Ile Pro
 20 25 30
 Ala Asp His Gly Phe Trp Phe Pro Leu Asp Ser Gly Leu Phe His Phe
 35 40 45
 Phe Asn Gln Ala Leu Ala Lys Ser Glu Ala Phe Leu Trp Leu Val Ala
 50 55 60
 Ile Thr Asn Asn Arg Ala Phe Asp Gly Cys Ser Leu Leu Ala Met Gly
 65 70 75 80
 Cys Leu Met Leu Ser Phe Trp Leu Lys Glu Asp Lys Thr Gly Arg Arg
 85 90 95
 Arg Ile Leu Ile Ile Gly Leu Val Met Leu Leu Thr Ala Val Ile Ile
 100 105 110
 Asn Gln Leu Ala Gln His Leu Met Pro Val Lys Arg Ala Ser Pro Ser
 115 120 125
 Leu Phe Phe Pro Asn Ile Asn Arg Val Ser Glu Leu Leu His Ile Pro
 130 135 140
 Thr Lys Asp Ala Ser Lys Asp Ser Phe Pro Gly Asp His Gly Met Met
 145 150 155 160
 Leu Leu Ile Phe Ala Gly Phe Met Leu Arg Tyr Phe Gly Lys Lys Ala
 165 170 175
 Phe Ala Ile Ala Leu Val Ile Val Val Phe Ala Phe Pro Arg Val
 180 185 190
 Met Ile Gly Ala His Trp Leu Thr Asp Ile Ala Val Gly Ser Leu Thr
 195 200 205
 Ala Val Leu Ile Gly Leu Pro Trp Val Leu Met Thr Pro Leu Ser Asp
 210 215 220
 Arg Val Ile Gly Ile Phe Asp Arg Tyr Leu Pro Gly Lys Phe Lys Gln
 225 230 235 240
 Val Arg Asn Lys
 245

<210> 6157

<211> 123

<212> PRT

<213> Enterobacter cloacae

<400> 6157

Glu Tyr Ala Arg Asp Gly Gln Ile Val Leu Asn Ile Ala Pro Arg Ala
 1 5 10 15
 Val Gly Asn Leu Glu Leu Ala Asn Asp Glu Val Arg Phe Asn Ala Arg
 20 25 30
 Phe Gly Gly Val Pro Arg Gln Val Ser Val Pro Leu Ala Ala Val Leu
 35 40 45
 Ala Ile Tyr Ala Arg Glu Asn Gly Ala Gly Thr Met Phe Glu Pro Glu
 50 55 60
 Ala Ala Tyr Asp Glu Glu Val Ala Ser Leu Asn Asp Glu Glu Gly Gly
 65 70 75 80
 Val Gly Thr Glu Ser Glu Thr Val Met Ser Val Ile Asp Gly Asp Lys
 85 90 95
 Pro Asp Arg Glu Asp Asp Asn Asp Pro Asp Asp Asp Pro Pro Pro Arg
 100 105 110
 Gly Gly Arg Pro Ala Leu Arg Val Val Lys
 115 120

<210> 6158

<211> 812

<212> PRT

<213> Enterobacter cloacae

<400> 6158

Ile	Thr	Leu	Asn	Arg	Asp	Met	Thr	Val	Cys	Lys	Lys	Ser	Arg	Leu	Ala
1			5						10					15	
Leu	Cys	Val	Arg	Ala	Ile	Leu	Cys	Gly	Thr	Leu	Pro	Leu	Val	Val	Leu
			20					25					30		
Ala	Ser	Pro	Ser	Leu	Tyr	Ala	Arg	Glu	Val	Thr	Phe	Asp	Thr	Gly	Ile
		35					40					45			
Ile	Gln	Ser	Arg	Gly	Leu	Ser	Pro	Asp	Leu	Asn	His	Tyr	Phe	Ala	Gln
	50					55					60				
Ala	Pro	Arg	Phe	Leu	Pro	Gly	Thr	His	Ser	Val	Gln	Val	Lys	Val	Asn
65					70					75					80
Gly	Lys	Asp	Arg	Gly	Thr	Ala	Ala	Ala	Arg	Phe	Asn	Glu	Asp	Gly	Glu
				85					90					95	
Leu	Cys	Ile	Asp	Lys	Asp	Phe	Leu	Asp	Phe	Ala	Gly	Ile	Met	Pro	Val
			100					105					110		
Pro	Leu	Lys	Ala	Gly	Glu	Ala	Cys	His	Asp	Ile	Arg	Ser	Asp	Tyr	Ala
		115					120					125			
Gln	Ala	Val	Val	Asn	Ala	Leu	Pro	Asn	Gln	Asp	Ala	Val	Glu	Leu	Tyr
	130					135					140				
Leu	Pro	Gln	Glu	Ala	Ile	Asn	Ser	Leu	Thr	Ser	Asn	Ile	Lys	His	Phe
145					150					155					160
Gln	Gln	Gly	Gly	Thr	Ala	Gly	Leu	Leu	Asn	Tyr	Ser	Leu	Phe	Ser	Thr
				165					170					175	
Arg	Asn	Glu	Tyr	Gly	Asp	Ser	Asp	Asn	Ser	Arg	Tyr	Ser	Gln	Ala	Ser
			180					185					190		
Leu	Glu	Ala	Gly	Phe	Asn	Thr	Met	Asp	Trp	Ser	Val	Arg	Ser	Arg	Tyr
		195					200					205			
Ile	Leu	Thr	Asp	Asp	Asp	Gly	Asp	Lys	Asn	Ala	Glu	Ser	Ile	Tyr	Thr
	210					215					220				
Tyr	Ala	Glu	His	Val	Phe	Val	Pro	Gln	Arg	Leu	Thr	Met	Gln	Val	Gly
225					230					235					240
Glu	Ile	Asn	Ala	Met	Ser	Gly	Val	Leu	Ser	Gly	Val	Pro	Ile	Thr	Gly
				245					250					255	
Val	Gln	Leu	Met	Pro	Thr	Asn	Gly	Leu	Glu	Arg	Asp	Gly	Thr	Gly	Val
			260					265					270		
Ser	Val	Ser	Gly	Ile	Ala	Arg	Ser	Ser	Gln	Ala	Arg	Val	Glu	Val	Arg
		275					280					285			
Gln	Ser	Gly	Arg	Leu	Val	Tyr	Ser	Thr	Leu	Val	Pro	Ala	Gly	Pro	Phe
	290					295					300				
Thr	Leu	Asp	Asp	Val	Pro	Val	Val	Arg	Asn	Asn	Val	Asp	Leu	Asp	Val
305					310					315					320
Thr	Val	Val	Glu	Ser	Asp	Gly	Ser	Ser	Ser	His	Phe	Ile	Val	Pro	Ala
				325					330					335	
Ser	Ala	Val	Arg	Thr	Arg	Lys	Leu	Gly	Arg	Pro	Gln	Gly	Leu	Thr	Met
			340					345					350		
Ser	Val	Gly	Gln	Val	Arg	Ser	Ile	Asp	Ser	Asp	Tyr	Ser	Asp	Pro	Leu
		355					360					365			
Val	Ala	Asn	Val	Ser	Asp	Gly	Trp	Arg	Ile	Thr	Pro	Trp	Met	Asn	Val
	370					375					380				
Leu	Ala	Ser	Gly	Ala	Val	Ala	Glu	Lys	Tyr	Gln	Ala	Ala	Gly	Gly	Ser
385					390					395					400
Ala	Glu	Phe	Met	Leu	Ser	Asp	Ile	Trp	Gly	Ile	Thr	Thr	Thr	Ala	Ala
				405					410					415	
Ala	Ser	Lys	Glu	Gln	Phe	Gly	Asp	Ser	Asn	Ser	Gly	Leu	Lys	Thr	Glu
			420					425					430		
Leu	Gln	Ser	Asp	Leu	Thr	Leu	Gly	Glu	His	Val	Ser	Leu	Ser	Ala	Ser
		435					440					445			
Ala	Thr	His	Phe	Ser	Ser	Gly	Tyr	Arg	Glu	Leu	Ala	Asp	Ala	Leu	Asp
	450					455					460				
Asp	Glu	Phe	Gln	Pro	Asn	Asp	Asn	Thr	Tyr	Ser	Gly	Asn	Val	Ser	Phe
465					470					475					480

Ala	Thr	Gly	Ile	Ala	Gly	Thr	Phe	Ser	Ala	Gly	Phe	Asn	Tyr	Asn	Gln
			485						490					495	
Ser	Ala	Asn	Tyr	Glu	Asp	Ser	Arg	Tyr	Leu	Leu	Leu	Ser	Trp	Gly	Lys
		500						505					510		
Thr	Phe	Lys	Tyr	Ala	Ser	Ile	Thr	Val	Asn	Trp	Gln	Ser	Ala	Val	Gly
		515					520					525			
Asn	Thr	Asp	Asp	Glu	Gln	Asp	Asp	Asp	Met	Leu	Tyr	Val	Asn	Leu	Ser
		530				535					540				
Ile	Pro	Leu	Gly	Gly	Ser	Gln	Ser	Leu	Ser	Ser	Tyr	Met	Arg	Lys	Gln
545					550					555					560
Gly	Asp	Arg	Thr	Thr	Tyr	Gly	Val	Ala	Asn	Ser	Gly	Ala	Ile	Gly	Asp
				565					570					575	
Asn	Thr	Asn	Tyr	Tyr	Ile	Ser	Ala	Asp	Arg	Asp	Asn	Asp	Asp	Asn	Glu
			580					585					590		
Asn	Ser	Phe	Asn	Gly	Asn	Ile	Asn	Thr	Asn	Leu	His	Tyr	Thr	Gln	Leu
		595					600					605			
Ser	Val	Gly	Gly	Gly	Ser	Ser	Gly	Ser	Asn	Gln	Arg	Asn	Tyr	Ser	Ala
	610					615					620				
Thr	Leu	Thr	Gly	Gly	Ile	Ala	Met	His	Lys	Asp	Gly	Val	Thr	Phe	Ser
625					630					635					640
Pro	Tyr	Ala	Ile	Lys	Asp	Thr	Phe	Ala	Ile	Ala	Lys	Leu	Asn	Glu	Pro
				645					650					655	
Lys	Ser	Gly	Val	Glu	Ile	Ser	Thr	Pro	Gln	Gly	Thr	Ile	Trp	Thr	Asp
			660					665					670		
His	Trp	Gly	Gln	Ala	Val	Val	Pro	Gly	Leu	Asn	Glu	Trp	Arg	Asn	Ser
		675					680					685			
Arg	Ile	Glu	Ile	Asp	Ala	Asn	Lys	Leu	Pro	Pro	Ser	Met	Thr	Leu	Ala
		690				695					700				
Asn	Gly	Ile	Lys	Tyr	Val	Ala	Ala	Gly	His	Ala	Ser	Val	Ser	Glu	Val
705					710					715					720
Ser	Phe	Lys	Ile	Leu	Asn	Ser	Arg	Arg	Val	Met	Leu	Arg	Val	Lys	Arg
				725					730					735	
Ala	Asp	Gly	Thr	Pro	Leu	Ala	Lys	Gly	Leu	Ser	Ile	Val	Asp	Glu	Lys
			740					745					750		
Gly	Asn	Tyr	Ile	Val	Thr	Ser	Val	Asp	Asp	Gly	His	Val	Phe	Ile	Asn
		755					760					765			
Asp	Ala	Asp	Gln	Leu	Lys	Gly	Leu	Tyr	Ala	Met	Asp	Asp	Asn	Asn	Asn
	770					775					780				
Arg	Leu	Cys	Gln	Ile	His	Tyr	Thr	Leu	Ser	Asp	Lys	Lys	Asp	Asp	Glu
785					790					795					800
Ala	Phe	Tyr	Glu	Glu	Val	Asn	Gly	Val	Cys	Gln					
				805					810						

<210> 6159

<211> 272

<212> PRT

<213> Enterobacter cloacae

<400> 6159

Tyr	Phe	Lys	Ile	Gly	Ile	Leu	Ile	Lys	Asn	Gly	Ile	Asn	Ile	Ser	Cys
1				5					10					15	
Leu	Phe	Leu	Ser	Asn	Tyr	Thr	Trp	Thr	Trp	Asn	Val	Val	Leu	Trp	Ile
			20					25					30		
Lys	Gly	Val	Ile	Ile	Met	Ser	Cys	Leu	Lys	Lys	Thr	Leu	Leu	Lys	Ser
		35				40						45			
Val	Ile	Ala	Ala	Ala	Leu	Phe	Ser	Ala	Gln	Phe	Ser	Thr	Tyr	Ala	Ala
	50					55					60				
Gly	Met	Val	Pro	Glu	Thr	Ser	Leu	Leu	Val	Ile	Asp	Glu	Ala	Thr	His
65					70					75					80
Ser	Gly	Thr	Ile	Asn	Val	Lys	Asn	Thr	Asp	Ser	Phe	Pro	Ala	Leu	Leu
				85					90					95	

Tyr Thr Asn Val Leu Asp Leu Pro Asp Asp Gln Gly Leu Lys Leu Ile
 100 105 110
 Ser Thr Gln Pro Val Val Arg Leu Glu Pro Gly Gln Thr Gln Gln Leu
 115 120 125
 Arg Phe Ile Leu Gln Asn Lys Glu Pro Leu Glu Ala Glu His Tyr Lys
 130 135 140
 Arg Val Thr Phe Glu Gly Ile Pro Pro Lys Ser Asp Asn Lys Asn Ile
 145 150 155 160
 Lys Ile Gly Phe Asn Leu Arg Gln Asp Leu Pro Val Leu Ile Arg Pro
 165 170 175
 Ala Lys Leu Ala Val Val Thr Asp Ala Trp Lys Tyr Leu Glu Trp Asn
 180 185 190
 Ala Thr Gly Thr Thr Leu Thr Val Lys Asn Pro Ser Lys Tyr Val Val
 195 200 205
 Arg Leu Ala Gln Asn Val Met Thr Gln Pro Ser Gly Thr Ala Gly Thr
 210 215 220
 Leu Pro Lys Thr Tyr Ile Leu Pro Gly Gln Ser Met Thr Ala Thr Leu
 225 230 235 240
 Lys Lys Thr Val Ser Gly Asp Asn Lys Val Lys Phe Phe Pro Ala Ser
 245 250 255
 Arg Tyr Gly Val Glu Val Pro Ser Phe Val Ser Glu Leu Asn Lys
 260 265 270

<210> 6160

<211> 227

<212> PRT

<213> Enterobacter cloacae

<400> 6160

Arg Met Lys Lys Val Leu Ile Ala Thr Ala Leu Ser Leu Cys Val Ala
 1 5 10 15
 Ser Ala Phe Ala Ala Asp Thr Ala Val Leu Gln Val Lys Gly Lys Leu
 20 25 30
 Thr Asn Ala Ala Cys Thr Pro Glu Leu Ser Lys Gly Gly Val Val Asp
 35 40 45
 Tyr Gly Thr Ile His Pro Gly Ser Leu Ser Ala Ser Ala Val Asn Gln
 50 55 60
 Leu Gly Gln Asn Asn Ile Asp Leu Thr Ile Thr Cys Ser Ala Ala Thr
 65 70 75 80
 Lys Val Ser Trp Thr Met Val Asp Asp Arg Ala Glu Thr Asn Ala Gly
 85 90 95
 Leu Thr Val Asn Asn Ala Met Phe Thr Gly Ala Ser Leu Ser Asn Ser
 100 105 110
 Ser Gln Thr Tyr Gly Val Gly Lys Thr Thr Gly Gly Val Asn Ile Gly
 115 120 125
 Ser Tyr Ala Met Phe Val Lys Val Asp Ser Val Thr Ala Asp Gly Ala
 130 135 140
 Thr Val Asp Pro Ile Tyr Thr Gln Asn Gly Asp Thr Ser Lys Trp Thr
 145 150 155 160
 Thr Ser Thr Asn Gly Ser Ser Gln Ala Gln Asn Ile Arg Glu Phe Thr
 165 170 175
 Val Ala Lys Ser Gly Glu Lys Val Pro Leu Ala Phe Leu Ser Ala Thr
 180 185 190
 Phe Pro Leu Val Thr Ser Leu Ala Ile Gln Asp Thr Thr Thr Leu Ala
 195 200 205
 Ile Thr Asp Asp Thr Thr Leu Asp Gly Gln Leu Thr Ile Ser Leu Lys
 210 215 220
 Tyr Leu
 225

<210> 6161

<211> 94
 <212> PRT
 <213> Enterobacter cloacae

<400> 6161

Gln	Met	Lys	Lys	Val	Leu	Leu	Ala	Thr	Ala	Leu	Ser	Leu	Cys	Val	Ala
1				5					10					15	
Ser	Ala	Phe	Ala	Ala	Asp	Thr	Ala	Val	Leu	Gln	Val	Lys	Gly	Lys	Leu
			20					25					30		
Thr	Asn	Ala	Ala	Cys	Thr	Pro	Gln	Leu	Ser	Asn	Gly	Gly	Val	Val	Asp
		35					40				45				
Tyr	Gly	Thr	Ile	His	Leu	Gly	Glu	Leu	Ser	Ala	Thr	Ala	Val	Asn	Gln
	50					55				60					
Leu	Gly	Asp	Lys	Asp	Ile	Asn	Leu	Thr	Ile	Thr	Cys	Gly	Ala	Pro	Thr
65				70					75					80	
Gln	Val	Gly	Trp	Val	Val	Asp	Asp	Asn	Arg	Glu	Phe	Lys			
				85				90							

<210> 6162
 <211> 76
 <212> PRT
 <213> Enterobacter cloacae

<400> 6162

Phe	Phe	Leu	Thr	Gln	Ile	Asp	Thr	Val	Leu	Val	Leu	Phe	Arg	Leu	Pro
1				5				10						15	
Ala	Trp	Trp	Asn	Asp	Phe	Ile	Ala	Gly	Leu	Val	Leu	Leu	Gly	Val	Leu
			20					25					30		
Val	Leu	Asp	Gly	Arg	Leu	Arg	Gln	Ala	Leu	Ala	Arg	His	Gln	Arg	Ala
		35					40				45				
Leu	Lys	Tyr	Ser	Arg	Phe	Gln	Pro	Gly	Asn	Lys	Gly	Gly	Lys	His	Val
	50					55				60					
Thr	Pro	Phe	Pro	Lys	Arg	Lys	Lys	Glu	Val	Ala					
65				70				75							

<210> 6163
 <211> 326
 <212> PRT
 <213> Enterobacter cloacae

<400> 6163

Met	Arg	Leu	Asn	Trp	Glu	Ser	Ala	Leu	Leu	Ile	Leu	Leu	Val	Leu	Glu
1			5					10						15	
Ile	Leu	Leu	Phe	Gly	Ala	Ile	Asn	Pro	Arg	Met	Leu	Asp	Ile	Asn	Met
			20					25					30		
Leu	Leu	Phe	Ser	Thr	Ser	Asp	Phe	Ile	Cys	Ile	Gly	Ile	Val	Ala	Leu
		35					40				45				
Pro	Leu	Thr	Leu	Val	Ile	Ile	Ser	Gly	Gly	Ile	Asp	Ile	Ser	Leu	Gly
	50					55				60					
Ser	Thr	Ile	Gly	Leu	Cys	Ala	Ile	Ala	Leu	Gly	Val	Met	Met	Gln	Ala
65				70				75						80	
Gly	Trp	Pro	Met	Ala	Val	Ala	Ile	Pro	Leu	Thr	Leu	Leu	Leu	Gly	Leu
				85				90						95	
Leu	Cys	Gly	Leu	Val	Asn	Ala	Ala	Leu	Ile	His	Tyr	Thr	Gly	Ile	Ser
			100					105					110		
Pro	Leu	Val	Ile	Thr	Leu	Gly	Thr	Leu	Tyr	Leu	Tyr	Gly	Gly	Gly	Ala
		115				120						125			
Leu	Leu	Leu	Ser	Gly	Met	Ala	Gly	Ala	Thr	Gly	Tyr	Glu	Gly	Ile	Gly
	130					135					140				
Gly	Phe	Pro	Asp	Ser	Phe	Thr	Ala	Phe	Ala	Asn	Leu	Thr	Val	Leu	Gly
145					150					155					160

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<210> 6164
<211> 326
<212> PRT
<213> Enterobacter cloacae
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<400> 6164															
Gly 1	Glu	Gly	Gln 5	Arg	His	Arg	Ala	Ala	Ala 10	Gly	Ala	Arg	Gly 15	Val	His
Gln	Arg	Glu	His 20	Gln	Gln	Ile	Arg	Phe 25	Leu	Thr	Gly	Glu	Gln 30	Met	Ala
Asp	Leu	Asp 35	Asp	Ile	Lys	Asp	Gly 40	Lys	Asp	Phe	Gly	Ile 45	Gly	Thr	Pro
Gln	Gln 50	Asn	Val	Pro	Tyr	Thr 55	Leu	Lys	Gly	Cys	Gly 60	Ser	Leu	Asp	Trp
Gly 65	Met	Gln	Ser	Arg	Leu 70	Ser	Arg	Ile	Phe 75	Asn	Pro	Gln	Ser	Asn 80	Arg
Thr	Val	Met	Leu	Ala 85	Phe	Asp	His	Gly 90	Tyr	Phe	Gln	Gly	Pro	Thr 95	Thr
Gly	Leu	Glu	Arg 100	Ile	Asp	Leu	Ser	Ile 105	Ala	Pro	Leu	Phe	Gly 110	Glu	Thr
Asp	Val	Leu 115	Met	Cys	Thr	Arg	Gly 120	Ile	Leu	Arg	Ser	Gln 125	Val	Pro	Ala
Ala	Thr 130	Asn	Lys	Pro	Val	Val 135	Leu	Arg	Ala	Ser	Gly 140	Gly	Asn	Ser	Ile
Leu 145	Gly	Glu	Leu	Ser	Asn 150	Glu	Cys	Val	Ala 155	Val	Ala	Met	Glu	Asp 160	Ala
Leu	Arg	Leu	Asn 165	Val	Cys	Ala	Val	Ala 170	Gln	Val	Tyr	Ile	Gly 175	Ser	
Glu	Phe	Glu	His 180	Gln	Ser	Ile	Asn 185	Asn	Val	Ile	Lys	Leu 190	Val	Asp	Ala
Gly	Ala	Arg 195	Tyr	Gly	Met	Pro	Thr 200	Leu	Ala	Val	Thr	Gly 205	Val	Gly	Lys
Glu	Met 210	Ala	Arg	Asp	Ala	Arg 215	Tyr	Phe	Ser	Leu	Ala 220	Ser	Arg	Ile	Ala
Ala 225	Glu	Met	Gly	Ala	Gln 230	Phe	Val	Lys	Thr	Tyr 235	Tyr	Val	Asp	Glu	Gly
Phe	Glu	Lys	Val	Thr 245	Ala	Ser	Cys	Pro	Val 250	Pro	Ile	Val	Ile	Ala 255	Gly

Gly Lys Lys Leu Pro Glu His Glu Ala Leu Glu Met Cys Trp Arg Ala
 260 265 270
 Ile Asp Gln Gly Ala Ser Gly Val Asp Met Gly Arg Asn Ile Phe Gln
 275 280 285
 Ser Ser Ala Pro Leu Ala Met Leu Lys Ala Val Lys Lys Val Val His
 290 295 300
 Glu Asn Met Ser Ala Arg Glu Ala Phe Gln Phe Trp Gln Glu Glu Lys
 305 310 315 320
 Gln Gly Glu Ala Lys
 325

<210> 6165

<211> 352

<212> PRT

<213> Enterobacter cloacae

<400> 6165

Val Cys Thr Ala Asn Gly Cys Asp Leu Ser Ser Glu Asn Tyr Pro Glu
 1 5 10 15
 Arg Lys Met Lys Thr Lys Leu Leu Val Leu Ala Met Ala Leu Ser Phe
 20 25 30
 Ala Ser Ala Gln Ala Ala Asp Arg Ile Ala Phe Ile Pro Lys Leu Val
 35 40 45
 Gly Val Gly Phe Phe Thr Ser Gly Gly Asn Gly Ala Lys Glu Ala Gly
 50 55 60
 Lys Val Leu Gly Val Asp Val Thr Tyr Asp Gly Pro Thr Glu Pro Ser
 65 70 75 80
 Val Ser Gly Gln Val Gln Leu Ile Asn Asn Phe Val Asn Gln Gly Tyr
 85 90 95
 Asn Ala Ile Ile Val Ser Ala Val Ser Pro Asp Gly Leu Cys Pro Ala
 100 105 110
 Leu Lys Arg Ala Met Gln Arg Gly Val Lys Val Leu Thr Trp Asp Ser
 115 120 125
 Asp Thr Lys Pro Glu Cys Arg Ser Ile Tyr Ile Asn Gln Gly Thr Pro
 130 135 140
 Glu Gln Leu Gly Gly Leu Leu Val Glu Met Ala Gly Lys Gln Val Thr
 145 150 155 160
 Lys Pro Asn Ala Lys Val Ala Phe Phe Tyr Ser Ser Pro Thr Val Thr
 165 170 175
 Asp Gln Asn Gln Trp Val Lys Glu Ala Lys Ala Lys Ile Glu Lys Asp
 180 185 190
 His Pro Gln Trp Gln Val Val Thr Thr Gln Phe Gly Tyr Asn Asp Ala
 195 200 205
 Thr Lys Ser Leu Gln Thr Ala Glu Gly Ile Leu Lys Ala Tyr Ser Asp
 210 215 220
 Leu Asp Ala Ile Ile Ala Pro Asp Ala Asn Ala Leu Pro Ala Ala Ala
 225 230 235 240
 Gln Ala Ala Glu Asn Leu Lys Arg Glu Gly Val Ala Ile Val Gly Phe
 245 250 255
 Ser Thr Pro Asn Val Met Arg Pro Tyr Val Glu Arg Gly Thr Val Lys
 260 265 270
 Ala Phe Gly Leu Trp Asp Val Val Gln Gln Gly Lys Ile Ala Val Asn
 275 280 285
 Val Ala Asp Arg Leu Leu Lys Lys Gly Asp Leu Asn Val Gly Asp Ser
 290 295 300
 Val Asp Val Lys Asn Ile Gly Thr Leu Lys Val Glu Pro Asn Ser Val
 305 310 315 320
 Gln Gly Tyr Gln Tyr Glu Ala Lys Gly Asn Gly Ile Val Leu Leu Pro
 325 330 335
 Glu Arg Val Val Phe Thr Lys Glu Asn Ile Ser Lys Tyr Asp Phe
 340 345 350

<210> 6166
 <211> 181
 <212> PRT
 <213> Enterobacter cloacae

<400> 6166
 Lys Ser Asp Arg Gln Leu Pro Gly Ala Asp Arg Tyr Arg Gly Gly Gln
 1 5 10 15
 Lys Ala Ala Gly Ala Arg Gly Ala Gly Asp Val Leu Ala Arg Asp Arg
 20 25 30
 Pro Gly Arg Val Arg Arg Gly His Gly Ala Gln His Leu Pro Val Gln
 35 40 45
 Arg Ala Ala Arg His Ala Glu Gly Gly Glu Glu Ser Gly Ser Arg Glu
 50 55 60
 His Glu Arg Pro Gly Gly Val Pro Val Leu Ala Gly Arg Glu Thr Gly
 65 70 75 80
 Arg Ser Lys Met Asn Val Thr Leu Val Glu Ile Asn Ile Lys Pro Glu
 85 90 95
 Arg Val Asp Glu Phe Leu Glu Val Phe Arg Ala Asn His Glu Gly Ala
 100 105 110
 Ile Lys Glu Pro Gly Asn Leu Arg Phe Asp Val Leu Gln Asp Pro Arg
 115 120 125
 Val Lys Thr Arg Phe Phe Ile Tyr Glu Ala Tyr Lys Asp Glu Lys Ala
 130 135 140
 Val Leu Ala His Lys Gln Thr Pro His Tyr Leu Ala Cys Val Asp Lys
 145 150 155 160
 Leu Glu Glu Leu Met Ser Glu Pro Arg Lys Lys Arg Ser Phe Val Gly
 165 170 175
 Leu Leu Pro Glu
 180

<210> 6167
 <211> 446
 <212> PRT
 <213> Enterobacter cloacae

<400> 6167
 Ile Leu Pro Asn Glu Arg Asn Gly Leu Leu Tyr Thr Pro Gly Ser Ile
 1 5 10 15
 His Trp Arg His Asp Ile Met Ala Asn Thr Ile Thr Ala Asp Asp Ile
 20 25 30
 Arg Glu His Phe Ser Gln Ala Met Ser Ala Met Tyr Gln Gln Glu Val
 35 40 45
 Pro Gln Tyr Gly Thr Leu Leu Glu Leu Val Ala Asp Val Asn Leu Ala
 50 55 60
 Val Leu Glu Asn Asn Pro Leu Leu His Glu Gln Leu Ala Asn Ala Asp
 65 70 75 80
 Glu Leu Ala Arg Leu Asn Val Glu Arg His Gly Ala Ile Arg Val Gly
 85 90 95
 Thr Ala Gln Glu Leu Ser Thr Leu Arg Arg Ile Phe Ala Ile Met Gly
 100 105 110
 Met Tyr Pro Val Ser Tyr Tyr Asp Leu Ser Gln Ala Gly Val Pro Val
 115 120 125
 His Ser Thr Ala Phe Arg Pro Thr Asp Asp Ala Ala Leu Cys Arg Asn
 130 135 140
 Pro Phe Arg Ile Phe Thr Ser Leu Leu Arg Leu Glu Leu Ile Glu Asn
 145 150 155 160
 Val Ala Leu Arg Glu Arg Ala Ala Glu Ile Leu Ser Arg Arg Asn Ile
 165 170 175
 Phe Thr Pro Arg Cys Leu Glu Leu Ile Asp Leu His Asp Ala Gln Gly

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<210> 6168
<211> 320
<212> PRT
<213> Enterobacter cloacae
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<400> 6168																
Leu	Val	Thr	Arg	Val	Ala	Leu	Phe	Leu	Thr	Ser	Pro	Met	Glu	Lys	Asn	
1				5					10					15		
Gly	Leu	Phe	Ser	Gln	Arg	Ile	Arg	Leu	Arg	His	Leu	His	Thr	Phe	Val	
			20					25					30			
Ala	Val	Ala	Gln	Gln	Gly	Thr	Leu	Gly	Arg	Ala	Ala	Glu	Thr	Leu	Asn	
			35				40					45				
Leu	Ser	Gln	Pro	Ala	Leu	Ser	Lys	Thr	Leu	Asn	Glu	Leu	Glu	Gln	Leu	
	50					55					60					
Thr	Gly	Thr	Arg	Leu	Phe	Asp	Arg	Gly	Arg	Leu	Gly	Ala	Gln	Leu	Thr	
65				70						75					80	
Leu	Val	Gly	Glu	Gln	Phe	Leu	Thr	His	Ala	Val	Lys	Val	Leu	Asp	Ala	
				85					90					95		
Leu	Asn	Thr	Ala	Gly	Gln	Ala	Leu	Asn	Arg	Lys	Glu	Glu	Pro	Ala	Ser	
			100					105					110			
Asp	Ile	Val	Arg	Val	Gly	Ala	Leu	Pro	Thr	Ala	Ala	Leu	Gly	Ile	Leu	
		115					120					125				
Pro	Ala	Ala	Ile	Gly	Gln	Phe	His	Arg	Gln	Gln	Lys	His	Ala	Thr	Leu	
		130				135					140					
Gln	Val	Ala	Thr	Met	Asn	Asn	Thr	Met	Leu	Leu	Ala	Gly	Leu	Lys	Ser	
145				150						155					160	
Gly	Glu	Leu	Asp	Leu	Gly	Ile	Gly	Arg	Met	Ser	Asp	Pro	Glu	Leu	Met	

				165					170					175			
Ser	Gly	Leu	Asn	Tyr	Glu	Leu	Leu	Phe	Leu	Glu	Ser	Leu	Lys	Leu	Val		
			180					185					190				
Val	Arg	Pro	Asn	His	Pro	Leu	Leu	Gln	Asp	Thr	Val	Thr	Leu	Ser	Arg		
		195					200					205					
Val	Met	Glu	Trp	Pro	Val	Val	Val	Ser	Pro	Lys	Gly	Thr	Val	Pro	Arg		
	210					215					220						
Gln	Asn	Ala	Glu	Ala	Leu	Leu	Gln	Met	Gln	Gly	Cys	Thr	Leu	Pro	Ser		
225					230					235					240		
Gly	Cys	Ile	Glu	Thr	Leu	Ser	Ala	Ser	Leu	Ser	Arg	Gln	Leu	Thr	Val		
				245					250					255			
Asp	Tyr	Asp	Tyr	Val	Trp	Phe	Val	Pro	Ser	Gly	Ala	Val	Lys	Asp	Asp		
			260					265					270				
Leu	Arg	Arg	Gly	Val	Leu	Thr	Ala	Leu	Pro	Val	Thr	Ser	Pro	Gly	Ala		
		275					280					285					
Gly	Glu	Pro	Ile	Gly	Ile	Leu	Thr	Arg	Val	Asp	Ala	Pro	Leu	Ser	Glu		
	290					295				300							
Gly	Ala	Gln	Thr	Leu	Leu	Ser	Ala	Ile	Arg	Lys	Ser	Met	Pro	Leu			
305					310				315						320		

<210> 6169

<211> 346

<212> PRT

<213> Enterobacter cloacae

<400> 6169

Ala	Asn	Gln	Val	Val	Met	Lys	Lys	Met	Leu	Arg	Phe	Val	Leu	Leu	Leu		
1				5					10				15				
Ile	Val	Ala	Leu	Gly	Ile	Ala	Gly	Gly	Ala	Gly	Val	Trp	Lys	Val	Arg		
		20					25					30					
Gln	Leu	Ala	Glu	Ser	Gln	Ile	Leu	Ile	Lys	Asp	Glu	Thr	Ile	Phe	Thr		
	35					40					45						
Leu	Lys	Ala	Gly	Thr	Gly	Arg	Gln	Ala	Leu	Gly	Gln	Gln	Leu	Tyr	Asp		
	50				55					60							
Asp	Lys	Ile	Ile	Asn	Arg	Pro	Arg	Val	Phe	Gln	Trp	Leu	Leu	Arg	Ile		
	65			70					75					80			
Glu	Pro	Asp	Leu	Ser	His	Phe	Lys	Ala	Gly	Thr	Tyr	Arg	Phe	Thr	Pro		
			85					90					95				
Gly	Met	Thr	Val	Arg	Glu	Met	Leu	Gln	Leu	Leu	Glu	Ser	Gly	Lys	Glu		
		100					105					110					
Ala	Gln	Phe	Pro	Leu	Arg	Phe	Val	Glu	Gly	Met	Arg	Leu	Ser	Asp	Tyr		
	115					120					125						
Leu	Arg	Gln	Leu	Arg	Asp	Ala	Pro	Tyr	Ile	Lys	His	Thr	Leu	Lys	Asp		
	130				135					140							
Asp	Arg	Tyr	Gln	Thr	Val	Ala	Asp	Ala	Leu	Lys	Phe	Glu	His	Pro	Glu		
	145			150					155					160			
Trp	Val	Glu	Gly	Trp	Phe	Trp	Pro	Asp	Thr	Trp	Met	Tyr	Thr	Ala	Gly		
			165					170					175				
Thr	Thr	Asp	Val	Ala	Ile	Leu	Lys	Arg	Ala	His	Asn	Lys	Met	Val	Ala		
		180					185					190					
Ala	Val	Asp	Ala	Ala	Trp	Lys	Gly	Arg	Ala	Glu	Gly	Leu	Pro	Tyr	Lys		
	195					200					205						
Asp	Gln	Asn	Gln	Phe	Met	Thr	Met	Ala	Ser	Ile	Ile	Glu	Lys	Glu	Thr		
	210				215					220							
Ala	Val	Ala	Ala	Glu	Arg	Asp	Gln	Val	Ala	Ser	Val	Phe	Ile	Asn	Arg		
225				230					235					240			
Leu	Arg	Ile	Gly	Met	Arg	Leu	Gln	Thr	Asp	Pro	Thr	Val	Ile	Tyr	Gly		
			245					250					255				
Met	Gly	Glu	Asn	Tyr	Asn	Gly	Arg	Ile	Ser	Arg	Lys	Asp	Leu	Glu	Thr		
		260				265						270					
Pro	Thr	Ala	Tyr	Asn	Thr	Tyr	Val	Ile	Ser	Gly	Leu	Pro	Pro	Gly	Pro		

	275		280		285
Ile	Ala Thr Pro Ser Glu	Ala Ser Leu Lys Ala	Ala Ala His Pro Ala		
	290	295	300		
Lys	Thr Pro Tyr Leu Tyr Phe	Val Ala Asp Gly Lys	Gly Gly His Thr		
305		310	315		320
Phe	Asn Thr Asn Leu Ala Ser His Asn	Arg Ser Val Gln Asp Tyr Leu			
	325	330		335	
Lys	Ala Leu Lys Glu Lys Asn Ala	Gln			
	340	345			

<210> 6170

<211> 253

<212> PRT

<213> Enterobacter cloacae

<400> 6170

Tyr	Ser	Ala	Asp	Cys	Tyr	Ala	Val	Ala	Thr	Gly	Ala	Ala	Gly	Met	Lys
1				5					10					15	
Trp	Tyr	Pro	Trp	Leu	Arg	Pro	His	Phe	Glu	Gln	Leu	Ile	Gly	Ser	Tyr
			20					25					30		
Gln	Val	Gly	Arg	Gly	His	His	Ala	Leu	Leu	Ile	Gln	Ala	Leu	Pro	Gly
		35					40					45			
Met	Gly	Asp	Asp	Ala	Leu	Ile	Tyr	Ala	Ile	Thr	Arg	Phe	Leu	Met	Cys
	50					55				60					
Gln	Gln	Pro	Glu	Gly	His	Lys	Ser	Cys	Gly	Lys	Cys	Arg	Gly	Cys	Gln
65					70					75					80
Leu	Met	Gln	Ala	Gly	Thr	His	Pro	Asp	Tyr	Tyr	Thr	Leu	Glu	Pro	Glu
				85					90					95	
Lys	Gly	Lys	Asn	Thr	Leu	Gly	Ile	Asp	Ala	Val	Arg	Glu	Val	Ser	Glu
			100					105					110		
Lys	Leu	Tyr	Glu	Tyr	Ala	Arg	Leu	Gly	Gly	Ala	Lys	Val	Val	Trp	Leu
	115						120					125			
Lys	Asp	Ala	Ala	Leu	Leu	Thr	Glu	Ala	Ala	Ala	Asn	Ala	Leu	Leu	Lys
	130					135					140				
Thr	Leu	Glu	Glu	Pro	Pro	Glu	Asn	Thr	Trp	Phe	Phe	Leu	Ser	Cys	Arg
145					150					155					160
Glu	Pro	Glu	Arg	Leu	Leu	Ala	Thr	Leu	Arg	Ser	Arg	Cys	Arg	Leu	His
				165					170					175	
His	Leu	Ala	Val	Pro	Gln	Glu	Ser	Trp	Ser	Leu	Ala	Trp	Leu	Glu	Arg
			180					185					190		
Glu	Val	Thr	Val	Ser	Gln	Asp	Ala	Ala	Arg	Ser	Ala	Leu	Arg	Leu	Cys
		195					200					205			
Ser	Gly	Ala	Pro	Ala	Ala	Ala	Leu	Ala	Leu	Leu	Gln	Pro	Glu	Val	Trp
	210					215					220				
Ser	Gln	Arg	Glu	Thr	Leu	Cys	Arg	Ala	Val	Glu	Ser	Ala	Leu	Glu	Ser
225					230					235					240
Ser	Pro	Arg	Glu	Leu	Asp	Arg	Ile	Pro	Ala	Tyr	Ala	His			
				245					250						

<210> 6171

<211> 433

<212> PRT

<213> Enterobacter cloacae

<400> 6171

Val	Leu	Ser	Phe	Val	Val	Pro	Arg	Ile	Ser	Phe	Phe	Ile	Pro	Pro	Trp
1				5					10					15	
Arg	Thr	Ser	Val	Ser	Lys	Arg	Arg	Val	Val	Val	Thr	Gly	Leu	Gly	Met
			20					25					30		
Leu	Ser	Pro	Val	Gly	Asn	Thr	Val	Glu	Ser	Thr	Trp	Lys	Ala	Leu	Leu
		35					40					45			

Ala	Gly	Gln	Ser	Gly	Ile	Ser	Leu	Ile	Asp	His	Phe	Asp	Thr	Ser	Ala
	50					55					60				
Tyr	Ala	Thr	Lys	Phe	Ala	Gly	Leu	Val	Lys	Asp	Phe	Asn	Cys	Glu	Glu
65					70					75					80
Ile	Ile	Ser	Arg	Lys	Glu	Gln	Arg	Lys	Met	Asp	Ala	Phe	Ile	Gln	Tyr
				85					90					95	
Gly	Ile	Val	Ala	Gly	Val	Gln	Ala	Met	Gln	Asp	Ser	Gly	Leu	Glu	Ile
			100					105					110		
Thr	Glu	Glu	Asn	Ala	Thr	Arg	Ile	Gly	Ala	Ala	Ile	Gly	Ser	Gly	Ile
			115				120					125			
Gly	Gly	Leu	Gly	Leu	Ile	Glu	Glu	Asn	His	Thr	Ser	Leu	Met	Asn	Gly
	130					135					140				
Gly	Pro	Arg	Lys	Ile	Ser	Pro	Phe	Phe	Val	Pro	Ser	Thr	Ile	Val	Asn
145					150					155					160
Met	Val	Ala	Gly	His	Leu	Thr	Ile	Met	Phe	Gly	Leu	Arg	Gly	Pro	Ser
				165					170					175	
Ile	Ser	Ile	Ala	Thr	Ala	Cys	Thr	Ser	Gly	Val	His	Asn	Ile	Gly	Gln
			180					185					190		
Ala	Ala	Arg	Ile	Ile	Ala	Tyr	Gly	Asp	Ala	Asp	Ala	Met	Val	Ala	Gly
		195					200					205			
Gly	Ala	Glu	Lys	Ala	Ser	Thr	Pro	Leu	Gly	Val	Gly	Gly	Phe	Gly	Ala
	210					215					220				
Ala	Arg	Ala	Leu	Ser	Thr	Arg	Asn	Asp	Asn	Pro	Gln	Ala	Ala	Ser	Arg
225					230					235					240
Pro	Trp	Asp	Lys	Asp	Arg	Asp	Gly	Phe	Val	Leu	Gly	Asp	Gly	Ala	Gly
			245						250					255	
Met	Ile	Val	Leu	Glu	Glu	Tyr	Glu	His	Ala	Lys	Lys	Arg	Gly	Ala	Lys
			260				265						270		
Ile	Tyr	Ala	Glu	Val	Val	Gly	Phe	Gly	Met	Ser	Ser	Asp	Ala	Tyr	His
	275					280						285			
Met	Thr	Ser	Pro	Pro	Glu	Asn	Gly	Ala	Gly	Ala	Ala	Leu	Ala	Met	Glu
	290				295						300				
Asn	Ala	Ile	Arg	Asp	Ala	Gly	Ile	Thr	Pro	Ala	Gln	Ile	Gly	Tyr	Val
305					310					315					320
Asn	Ala	His	Gly	Thr	Ser	Thr	Pro	Ala	Gly	Asp	Lys	Ala	Glu	Ala	Gln
			325						330					335	
Ala	Val	Lys	Ser	Ile	Phe	Gly	Glu	Ser	Ala	Ser	Arg	Val	Leu	Val	Ser
			340					345					350		
Ser	Thr	Lys	Ser	Met	Thr	Gly	His	Leu	Leu	Gly	Ala	Ala	Gly	Ala	Val
	355					360						365			
Lys	Ser	Ile	Tyr	Ser	Ile	Leu	Ala	Leu	Arg	Asp	Gln	Ala	Val	Pro	Pro
	370				375						380				
Thr	Ile	Asn	Leu	Asp	Asn	Pro	Asp	Glu	Gly	Cys	Asp	Leu	Asp	Phe	Val
385					390					395					400
Pro	His	Glu	Ala	Arg	Gln	Val	Ser	Gly	Met	Glu	Tyr	Thr	Leu	Cys	Asn
			405						410					415	
Ser	Phe	Gly	Phe	Gly	Gly	Thr	Asn	Gly	Ser	Leu	Ile	Phe	Lys	Lys	Val
			420					425					430		

<210> 6172

<211> 273

<212> PRT

<213> Enterobacter cloacae

<400> 6172

Gly	Ala	Thr	Met	Phe	Leu	Ile	Asn	Gly	Leu	Glu	Gln	Asp	Thr	Leu	Pro
1				5					10					15	
Ala	Ser	Asp	Arg	Ala	Thr	Gln	Phe	Gly	Asp	Gly	Cys	Phe	Thr	Thr	Ala
			20					25					30		

Arg	Ile	Leu	Asp	Gly	Asp	Val	Cys	Leu	Leu	Gly	Ala	His	Ile	Leu	Arg
		35					40					45			
Leu	Gln	Lys	Ala	Cys	Glu	Thr	Leu	Leu	Ile	Pro	Phe	Ser	Gln	Trp	Asp
	50					55					60				
Ile	Leu	Glu	Ser	Glu	Met	Arg	Arg	Leu	Ala	Ser	Glu	Lys	Ala	Ser	Gly
65					70					75					80
Val	Leu	Lys	Val	Ile	Ile	Ser	Arg	Gly	Ser	Gly	Gly	Arg	Gly	Tyr	Ser
				85					90					95	
Gly	Ser	Ala	Cys	Leu	His	Pro	Thr	Arg	Ile	Leu	Ser	Val	Ser	Asp	Tyr
			100					105					110		
Pro	Ser	His	Tyr	Ala	His	Trp	Arg	Glu	Glu	Gly	Val	Ala	Leu	Ala	Leu
		115					120					125			
Ser	Pro	Val	Arg	Leu	Gly	Arg	Asn	Pro	Met	Leu	Ala	Gly	Ile	Lys	His
		130				135					140				
Leu	Asn	Arg	Leu	Glu	Gln	Val	Leu	Ile	Arg	Thr	His	Leu	Glu	Gln	Thr
145					150					155					160
Glu	Ala	Gly	Glu	Ala	Leu	Val	Leu	Asp	Ser	Glu	Gly	Tyr	Ile	Thr	Glu
				165					170					175	
Cys	Cys	Ala	Ala	Asn	Leu	Leu	Trp	Arg	Lys	Gly	Ser	Glu	Val	Phe	Thr
			180					185					190		
Pro	Ser	Leu	Glu	Gln	Ala	Gly	Val	Asn	Gly	Ile	Met	Arg	Gln	Phe	Cys
		195					200					205			
Met	His	Leu	Leu	Ala	Arg	Ala	Gly	Phe	Arg	Val	Val	Glu	Val	Asn	Ala
		210				215					220				
Lys	Glu	Glu	Ala	Leu	Leu	Ala	Ala	Asp	Glu	Val	Val	Ile	Cys	Asn	Ala
225					230					235					240
Leu	Met	Pro	Val	Val	Pro	Val	Arg	Ala	Tyr	Gly	Arg	Lys	Cys	Trp	Ser
				245					250					255	
Ser	Arg	Glu	Leu	Phe	Gln	Phe	Leu	Ala	Pro	Leu	Cys	Glu	Gln	Thr	Arg
			260					265					270		

<210> 6173

<211> 220

<212> PRT

<213> Enterobacter cloacae

<400> 6173

Arg	His	Leu	Arg	Lys	Lys	Met	Arg	Ser	Lys	Tyr	Ile	Val	Ile	Glu	Gly
1				5					10					15	
Leu	Glu	Gly	Ala	Gly	Lys	Thr	Thr	Ala	Arg	Asn	Val	Val	Val	Asp	Thr
			20					25					30		
Leu	Thr	Ser	Leu	Gly	Val	Ala	Asp	Met	Val	Phe	Thr	Arg	Glu	Pro	Gly
		35					40				45				
Gly	Thr	Gln	Leu	Ala	Glu	Lys	Leu	Arg	Ser	Leu	Val	Leu	Asp	Ile	Lys
	50					55				60					
Ser	Val	Gly	Asp	Glu	Val	Ile	Thr	Asp	Lys	Ala	Glu	Val	Leu	Met	Phe
65					70					75					80
Tyr	Ala	Ala	Arg	Val	Gln	Leu	Val	Glu	Thr	Val	Ile	Lys	Pro	Ala	Leu
				85					90					95	
Ala	Glu	Gly	Lys	Trp	Val	Ile	Gly	Asp	Arg	His	Asp	Leu	Ser	Thr	Gln
			100					105					110		
Ala	Tyr	Gln	Gly	Gly	Gly	Arg	Gly	Ile	Asp	Gln	Thr	Met	Leu	Ala	Thr
		115					120					125			
Leu	Arg	Asn	Ala	Val	Leu	Gly	Asp	Phe	Arg	Pro	Asp	Leu	Thr	Leu	Tyr
		130				135					140				
Leu	Asp	Val	Thr	Pro	Glu	Val	Gly	Leu	Lys	Arg	Ala	Arg	Ala	Arg	Gly
145					150					155					160
Glu	Leu	Asp	Arg	Ile	Glu	Gln	Glu	Ser	Phe	Asp	Phe	Phe	Asn	Arg	Thr
				165					170					175	

Arg Ala Arg Tyr Leu Glu Leu Ala Gly Gln Asp Lys Thr Ile Arg Thr
 180 185 190
 Ile Asp Ala Thr Gln Ser Leu Glu Asp Val Thr Arg Asp Ile Gln Gln
 195 200 205
 Thr Val Thr Gln Trp Leu Gln Glu Gln Ala
 210 215 220

<210> 6174

<211> 336

<212> PRT

<213> Enterobacter cloacae

<400> 6174

Leu Val Glu Tyr Met Thr Ile Lys Val Gly Ile Asn Gly Phe Gly Arg
 1 5 10 15
 Ile Gly Arg Ile Val Phe Arg Ala Ala Gln Lys Arg Ser Asp Ile Glu
 20 25 30
 Ile Val Gly Ile Asn Asp Leu Leu Asp Ala Glu Tyr Met Ala Tyr Met
 35 40 45
 Leu Lys Tyr Asp Ser Thr His Gly Arg Phe Asp Gly Thr Val Glu Val
 50 55 60
 Lys Asp Gly His Leu Val Asn Gly Lys Thr Ile Arg Val Thr Ala
 65 70 75 80
 Glu Lys Asp Pro Ala Asn Leu Lys Trp Asn Glu Ile Gly Val Asp Val
 85 90 95
 Val Ala Glu Ala Thr Gly Ile Phe Leu Thr Asp Glu Thr Ala Arg Lys
 100 105 110
 His Ile Thr Ala Gly Ala Lys Lys Val Val Leu Thr Gly Pro Ser Lys
 115 120 125
 Asp Asn Thr Pro Met Phe Val Arg Gly Ala Asn Phe Glu Thr Tyr Ala
 130 135 140
 Gly Gln Asp Ile Val Ser Asn Ala Ser Cys Thr Thr Asn Cys Leu Ala
 145 150 155 160
 Pro Leu Ala Lys Val Ile Asn Asp Asn Phe Gly Ile Ile Glu Gly Leu
 165 170 175
 Met Thr Thr Val His Ala Thr Thr Ala Thr Gln Lys Thr Val Asp Gly
 180 185 190
 Pro Ser His Lys Asp Trp Arg Gly Gly Arg Gly Ala Ala His Asn Ile
 195 200 205
 Ile Pro Ser Ser Thr Gly Ala Ala Lys Ala Val Gly Lys Val Leu Pro
 210 215 220
 Glu Leu Asn Gly Lys Leu Thr Gly Met Ala Phe Arg Val Pro Thr Pro
 225 230 235 240
 Asn Val Ser Val Val Asp Leu Thr Val Arg Leu Glu Lys Ala Ala Ser
 245 250 255
 Tyr Glu Glu Ile Lys Lys Ala Ile Lys Ala Ala Ser Glu Gly Pro Met
 260 265 270
 Lys Gly Val Leu Gly Tyr Thr Glu His Asp Val Val Ser Thr Asp Phe
 275 280 285
 Asn Gly Glu Val Cys Thr Ser Val Phe Asp Ala Lys Ala Gly Ile Ala
 290 295 300
 Leu Asn Asp Asn Phe Val Lys Leu Val Ser Trp Tyr Asp Asn Glu Thr
 305 310 315 320
 Gly Tyr Ser Asn Lys Val Leu Asp Leu Ile Ala His Ile Ser Lys
 325 330 335

<210> 6175

<211> 300

<212> PRT

<213> Enterobacter cloacae

<400> 6175

Thr Glu Asp Cys Leu Met Ile Asn Lys Ile Phe Ala Leu Pro Val Val
 1 5 10 15
 Glu Gln Leu Thr Pro Val Leu Ser Arg Arg Gln Ile Asp Gly Ala Asp
 20 25 30
 Ile Ile Val Val Asp His Pro Arg Val Lys Ala Ser Val Ala Leu Asn
 35 40 45
 Gly Ala His Leu Leu Ser Trp Lys Pro Glu Gly Glu Glu Gly Leu
 50 55 60
 Trp Leu Ser Glu Ala Thr Ser Phe Lys Arg Gly Ala Ala Ile Arg Gly
 65 70 75 80
 Gly Val Pro Ile Cys Trp Pro Trp Phe Gly Pro Ser Ala Gln Gln Gly
 85 90 95
 Leu Pro Ser His Gly Phe Ala Arg Asn Gln Gln Trp Thr Leu Lys Ala
 100 105 110
 His Asn Glu Asp Glu Asn Gly Ala Val Leu Thr Phe Glu Leu Gln Ala
 115 120 125
 Asn Asp Glu Thr Arg Ala Leu Trp Pro His Glu Phe Thr Leu Tyr Ala
 130 135 140
 Arg Phe Lys Leu Gly Lys Thr Cys Glu Ile Glu Leu Glu Ala His Gly
 145 150 155 160
 Glu Phe Glu Thr Thr Ser Ala Leu His Thr Tyr Phe Asn Val Gly Asp
 165 170 175
 Ile Gln Ala Val Lys Val Ser Gly Leu Gly Asp Thr Phe Ile Asp Lys
 180 185 190
 Val Asp Asn Ala Lys Glu Gly Lys Leu Asp Asp Gly Val Gln Thr Phe
 195 200 205
 Pro Asp Arg Thr Asp Arg Val Tyr Leu His Pro Glu Ala Cys Ser Val
 210 215 220
 Ile His Asp Ser Ala Leu Asn Arg Gly Ile Asp Val Val His His His
 225 230 235 240
 His Ser Asn Val Val Gly Trp Asn Pro Gly Pro Ala Leu Ser Val Ser
 245 250 255
 Met Ala Asp Ile Pro Asp Asp Gly Tyr Lys Thr Phe Val Cys Val Glu
 260 265 270
 Thr Ala Cys Val Thr Ala Pro Gln Lys Thr Ser Glu Glu Lys Pro Ser
 275 280 285
 Arg Leu Gly Gln Thr Ile Lys Ile Val Lys Arg
 290 295 300

<210> 6176

<211> 525

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (525)

<400> 6176

Lys Thr Lys Gly Arg His Ala Met Asn Ile Phe Asp His Tyr Arg Gln
 1 5 10 15
 Arg Tyr Glu Ala Ala Lys Asp Glu Glu Phe Thr Leu Gln Glu Phe Leu
 20 25 30
 Thr Ile Cys Arg Gln Asp Arg Ser Ala Tyr Ala Asn Ala Ala Glu Arg
 35 40 45
 Leu Leu Met Ala Ile Gly Glu Pro Asn Met Val Asp Thr Ala Leu Glu
 50 55 60
 Pro Arg Leu Ser Arg Leu Phe Ser Asn Arg Val Val Ala Arg Tyr Pro
 65 70 75 80
 Ala Phe Glu Glu Phe Tyr Gly Met Glu Asp Ala Ile Glu Gln Ile Val

85										90					95				
Ser	Tyr	Leu	Lys	His	Ala	Ala	Gln	Gly	Leu	Glu	Glu	Lys	Lys	Gln	Ile				
			100					105					110						
Leu	Tyr	Leu	Leu	Gly	Pro	Val	Gly	Gly	Gly	Lys	Ser	Ser	Leu	Ala	Glu				
		115					120					125							
Arg	Leu	Lys	Ala	Leu	Met	Gln	Arg	Val	Pro	Ile	Tyr	Val	Leu	Ser	Ala				
	130					135					140								
Asn	Gly	Glu	Arg	Ser	Pro	Val	Asn	Asp	His	Pro	Leu	Cys	Leu	Phe	Asn				
145					150				155						160				
Pro	Gln	Glu	Asp	Ala	Gln	Ile	Leu	Glu	Lys	Glu	Phe	Gly	Ile	Pro	His				
			165						170					175					
Arg	Tyr	Leu	Gly	Thr	Ile	Met	Ser	Pro	Trp	Ala	Ala	Lys	Arg	Leu	His				
		180						185					190						
Glu	Phe	Gly	Gly	Asp	Ile	Thr	Lys	Phe	Arg	Val	Val	Lys	Val	Trp	Pro				
		195					200					205							
Ser	Ile	Leu	Glu	Gln	Ile	Ala	Ile	Ala	Lys	Thr	Glu	Pro	Gly	Asp	Glu				
	210					215					220								
Asn	Asn	Gln	Asp	Ile	Ser	Ala	Leu	Val	Gly	Lys	Val	Asp	Ile	Arg	Lys				
225					230					235					240				
Leu	Glu	His	His	Ala	Gln	Asn	Asp	Pro	Asp	Ala	Tyr	Gly	Tyr	Ser	Gly				
			245						250					255					
Ala	Leu	Cys	Arg	Ala	Asn	Gln	Gly	Ile	Met	Glu	Phe	Val	Glu	Met	Phe				
		260					265						270						
Lys	Ala	Pro	Ile	Lys	Val	Leu	His	Pro	Leu	Leu	Thr	Ala	Thr	Gln	Glu				
		275					280					285							
Gly	Asn	Tyr	Asn	Gly	Thr	Glu	Gly	Ile	Ser	Ala	Leu	Pro	Phe	Asn	Gly				
	290					295					300								
Ile	Ile	Leu	Ala	His	Ser	Asn	Glu	Ser	Glu	Trp	Val	Thr	Phe	Arg	Asn				
305					310					315					320				
Asn	Lys	Asn	Asn	Glu	Ala	Phe	Leu	Asp	Arg	Val	Tyr	Ile	Val	Lys	Val				
			325						330					335					
Pro	Tyr	Cys	Leu	Arg	Ile	Ser	Glu	Glu	Ile	Lys	Ile	Tyr	Glu	Lys	Leu				
		340					345						350						
Leu	Asn	His	Ser	Glu	Leu	Val	His	Ala	Pro	Cys	Ala	Pro	Gly	Thr	Leu				
	355						360					365							
Glu	Thr	Leu	Ser	Arg	Phe	Ser	Ile	Leu	Ser	Arg	Leu	Lys	Glu	Pro	Glu				
	370					375					380								
Asn	Ser	Ser	Ile	Tyr	Ser	Lys	Met	Arg	Val	Tyr	Asp	Gly	Glu	Ser	Leu				
385					390					395					400				
Lys	Asp	Thr	Asp	Pro	Lys	Ala	Lys	Ser	Tyr	Gln	Glu	Tyr	Arg	Asp	Tyr				
			405						410					415					
Ala	Gly	Val	Asp	Glu	Gly	Met	Asn	Gly	Leu	Ser	Thr	Arg	Phe	Ala	Phe				
		420						425					430						
Lys	Ile	Leu	Ser	Arg	Val	Phe	Asn	Phe	Asp	His	Ala	Glu	Val	Ala	Ala				
	435						440					445							
Asn	Pro	Val	His	Leu	Phe	Tyr	Val	Leu	Glu	Gln	Gln	Ile	Glu	Arg	Glu				
	450					455					460								
Gln	Phe	Pro	Gln	Glu	Gln	Ala	Glu	Arg	Tyr	Leu	Glu	Phe	Leu	Lys	Gly				
465					470				475						480				
Tyr	Leu	Ile	Pro	Lys	Tyr	Ala	Glu	Phe	Ile	Gly	Lys	Glu	Ile	Gln	Thr				
			485						490					495					
Ala	Tyr	Leu	Glu	Ser	Tyr	Ser	Glu	Tyr	Gly	Gln	Asn	Ile	Phe	Glu	Ser				
		500					505						510						
Ser	Pro	Arg	Gly	Ser	Lys	Asp	His	Glu	Arg	Ser	Arg	Xaa							
		515					520					525							

<210> 6177

<211> 258

<212> PRT

<213> Enterobacter cloacae

<400> 6177

Leu Phe Asp Tyr Arg Lys Glu Trp Ile Val Thr Lys Leu Lys Leu Leu
 1 5 10 15
 Ala Leu Gly Ile Leu Ala Ala Thr Ala Ala Ser Thr Val Gln Ala Glu
 20 25 30
 Ser Gln Trp Thr Val Gly Ala Gly Ala Gly Val Ile Asn Ser Pro Tyr
 35 40 45
 Lys Gln Tyr Asp Arg Asp Val Tyr Pro Val Pro Val Val Thr Tyr Glu
 50 55 60
 Gly Asp Asn Phe Trp Phe Arg Gly Leu Gly Gly Gly Tyr Tyr Leu Trp
 65 70 75 80
 Asn Asp Thr Ala Asp Lys Leu Ser Ile Met Ala Tyr Tyr Asp Pro Thr
 85 90 95
 His Phe Lys Pro Gly Asp Ser Asp Ser Asn Ala Leu Arg Gln Leu Asp
 100 105 110
 Lys Arg Arg Ser Ser Leu Met Ala Gly Leu Ser Tyr Val His Asn Thr
 115 120 125
 Glu Tyr Gly Phe Leu Arg Thr Ala Leu Ala Gly Asp Thr Leu Asp Asn
 130 135 140
 Ser Asn Gly Phe Ile Trp Asp Leu Ala Trp Leu Tyr Arg Tyr Thr Asn
 145 150 155 160
 Gly Ala Val Thr Leu Thr Pro Gly Ile Gly Val Gln Tyr Ser Ser Glu
 165 170 175
 Asn Tyr Asn Asp Tyr Tyr Tyr Gly Val Ser Lys Ala Glu Ser Arg Arg
 180 185 190
 Ser Gly Leu Asn Ser Tyr Ser Ala Asp Asp Gly Trp Asp Pro Tyr Leu
 195 200 205
 Glu Leu Thr Ala Ser Tyr Asn Phe Leu Gly Asp Trp Asn Val Tyr Gly
 210 215 220
 Thr Gly Arg Tyr Ile Arg Leu Ser Asp Glu Val Lys Asp Ser Pro Met
 225 230 235 240
 Val Asp Lys Ser Trp Ser Gly Ile Phe Ser Val Gly Val Thr Tyr Lys
 245 250 255
 Phe

<210> 6178

<211> 61

<212> PRT

<213> Enterobacter cloacae

<400> 6178

Asn Val Asp Phe Leu Gln Gly Asp Phe Arg Asp Glu Leu Val Leu Lys
 1 5 10 15
 Ala Leu Leu Asp Arg Val Gly Asp Ser Lys Val Gln Val Val Met Ser
 20 25 30
 Asp Met Ala Pro Asn Met Cys Gly Asn Thr Gly Gly Gly Tyr Pro Pro
 35 40 45
 Arg His Val Ser Gly Gly Thr Ser Val Arg Asn Val Ser
 50 55 60

<210> 6179

<211> 311

<212> PRT

<213> Enterobacter cloacae

<400> 6179

Ser Val Cys Leu Tyr Leu Lys Pro Trp Ser Leu Leu Arg Gly Phe Ser
 1 5 10 15
 Tyr Leu Phe Asn His Ile Asn Pro Arg Asp Phe Thr Met Lys Leu Phe
 20 25 30

Ala Gln Asp Ser His Leu Asp Leu Thr His Pro His Val Met Gly Ile
 35 40 45
 Leu Asn Val Thr Pro Asp Ser Phe Ser Asp Gly Gly Thr His Asn Ser
 50 55 60
 Leu Ile Asp Ala Val Lys His Ala Asn Leu Met Ile Asn Ala Gly Ala
 65 70 75 80
 Thr Ile Ile Asp Val Gly Gly Glu Ser Thr Arg Pro Gly Ala Ala Glu
 85 90 95
 Val Ser Val Glu Glu Glu Leu Ala Arg Val Val Pro Val Val Glu Ala
 100 105 110
 Ile Ala Arg Arg Phe Glu Val Trp Ile Ser Val Asp Thr Ser Lys Pro
 115 120 125
 Glu Val Ile Arg Glu Val Ala Arg Val Gly Ala His Ile Ile Asn Asp
 130 135 140
 Ile Arg Ser Leu Thr Glu Pro Gly Ala Ile Glu Ala Ala Ala Glu Thr
 145 150 155 160
 Gly Leu Pro Val Cys Leu Met His Met Gln Gly Gln Pro Lys Thr Met
 165 170 175
 Gln Glu Ala Pro Lys Tyr Glu Asp Val Phe Ala Asp Val Thr Arg Phe
 180 185 190
 Phe Ile Glu His Ile Glu Arg Cys Glu Arg Ala Gly Ile Ala Lys Glu
 195 200 205
 Lys Leu Leu Leu Asp Pro Gly Phe Gly Phe Gly Lys Asn Leu Ser His
 210 215 220
 Asn Tyr Ala Leu Leu Ala Arg Leu Ser Glu Phe His Gln Phe Gly Leu
 225 230 235 240
 Pro Leu Leu Val Gly Met Ser Arg Lys Ser Met Ile Gly Gln Leu Leu
 245 250 255
 Asn Val Gly Pro Ser Glu Arg Leu Ser Gly Ser Leu Ala Cys Ala Val
 260 265 270
 Ile Ala Ala Met Gln Gly Ala His Ile Ile Arg Val His Asp Val Lys
 275 280 285
 Glu Thr Val Glu Ala Met Arg Val Val Glu Ala Thr Leu Ala Ala Lys
 290 295 300
 Glu Asn Lys Arg Tyr Glu
 305 310

<210> 6180

<211> 96

<212> PRT

<213> Enterobacter cloacae

<400> 6180

Val Thr Val Arg Ser Arg Leu Ser Cys Arg Ile Trp Arg Gln Ile Cys
 1 5 10 15
 Val Glu Thr Pro Ala Val Asp Ile Pro Arg Ala Met Tyr Leu Val Glu
 20 25 30
 Leu Ala Leu Glu Met Cys Arg Asp Val Leu Ala Pro Gly Gly Ser Phe
 35 40 45
 Val Val Lys Val Phe Gln Gly Glu Gly Phe Glu Glu Tyr Leu Lys Glu
 50 55 60
 Ile Arg Ser Leu Phe Ala Lys Val Lys Val Arg Lys Pro Asp Ser Ser
 65 70 75 80
 Arg Ala Arg Ser Arg Glu Val Tyr Ile Val Ala Thr Gly Arg Lys
 85 90 95

<210> 6181

<211> 653

<212> PRT

<213> Enterobacter cloacae

<400> 6181

Tyr	Glu	Val	Asn	Pro	Leu	Ser	Asp	Met	Ala	Lys	Asn	Leu	Ile	Leu	Trp
1			5						10					15	
Leu	Val	Ile	Ala	Val	Val	Leu	Met	Ser	Val	Phe	Gln	Ser	Phe	Gly	Pro
			20					25					30		
Ser	Glu	Ser	Asn	Gly	Arg	Lys	Val	Asp	Tyr	Ser	Thr	Phe	Leu	Gln	Glu
		35					40					45			
Val	Asn	Gln	Asp	Gln	Val	Arg	Glu	Ala	Arg	Ile	Asn	Gly	Arg	Glu	Ile
	50					55					60				
Asn	Val	Thr	Lys	Lys	Asp	Ser	Asn	Arg	Tyr	Thr	Thr	Tyr	Ile	Pro	Val
65					70					75				80	
Asn	Asp	Pro	Lys	Leu	Asp	Asn	Leu	Leu	Thr	Lys	Asn	Val	Lys	Val	
			85					90					95		
Val	Gly	Glu	Pro	Pro	Glu	Glu	Pro	Ser	Leu	Leu	Ala	Ser	Ile	Phe	Ile
			100					105					110		
Ser	Trp	Phe	Pro	Met	Leu	Leu	Leu	Ile	Gly	Val	Trp	Ile	Phe	Phe	Met
		115					120					125			
Arg	Gln	Met	Gln	Gly	Gly	Gly	Gly	Lys	Gly	Ala	Met	Ser	Phe	Gly	Lys
		130				135					140				
Ser	Lys	Ala	Arg	Met	Leu	Thr	Glu	Asp	Gln	Ile	Lys	Thr	Thr	Phe	Ala
145					150					155					160
Asp	Val	Ala	Gly	Cys	Asp	Glu	Ala	Lys	Glu	Glu	Val	Gly	Glu	Leu	Val
			165					170						175	
Glu	Tyr	Leu	Arg	Glu	Pro	Ser	Arg	Phe	Gln	Lys	Leu	Gly	Gly	Lys	Ile
		180						185					190		
Pro	Lys	Gly	Val	Leu	Met	Val	Gly	Pro	Pro	Gly	Thr	Gly	Lys	Thr	Leu
		195					200					205			
Leu	Ala	Lys	Ala	Ile	Ala	Gly	Glu	Ala	Lys	Val	Pro	Phe	Phe	Thr	Ile
		210				215					220				
Ser	Gly	Ser	Asp	Phe	Val	Glu	Met	Phe	Val	Gly	Val	Gly	Ala	Ser	Arg
225					230					235					240
Val	Arg	Asp	Met	Phe	Glu	Gln	Ala	Lys	Lys	Ala	Ala	Pro	Cys	Ile	Ile
			245						250					255	
Phe	Ile	Asp	Glu	Ile	Asp	Ala	Val	Gly	Arg	Gln	Arg	Gly	Ala	Gly	Leu
		260						265					270		
Gly	Gly	Gly	His	Asp	Glu	Arg	Glu	Gln	Thr	Leu	Asn	Gln	Met	Leu	Val
		275					280					285			
Glu	Met	Asp	Gly	Phe	Glu	Gly	Asn	Glu	Gly	Ile	Ile	Val	Ile	Ala	Ala
	290					295					300				
Thr	Asn	Arg	Pro	Asp	Val	Leu	Asp	Pro	Ala	Leu	Leu	Arg	Pro	Gly	Arg
305					310					315					320
Phe	Asp	Arg	Gln	Val	Val	Val	Gly	Leu	Pro	Asp	Val	Arg	Gly	Arg	Glu
			325						330					335	
Gln	Ile	Leu	Lys	Val	His	Met	Arg	Arg	Val	Pro	Leu	Ala	Pro	Asp	Ile
			340					345					350		
Asp	Ala	Ala	Ile	Ile	Ala	Arg	Gly	Thr	Pro	Gly	Phe	Ser	Gly	Ala	Asp
		355					360					365			
Leu	Ala	Asn	Leu	Val	Asn	Glu	Ala	Ala	Leu	Phe	Ala	Ala	Arg	Gly	Asn
		370				375					380				
Lys	Arg	Val	Val	Ser	Met	Val	Glu	Phe	Glu	Lys	Ala	Lys	Asp	Lys	Ile
385					390					395					400
Met	Met	Gly	Ala	Glu	Arg	Arg	Ser	Met	Val	Met	Thr	Glu	Ala	Gln	Lys
			405						410					415	
Glu	Ser	Thr	Ala	Tyr	His	Glu	Ala	Gly	His	Ala	Ile	Ile	Gly	Arg	Leu
			420					425					430		
Val	Pro	Glu	His	Asp	Pro	Val	His	Lys	Val	Thr	Ile	Ile	Pro	Arg	Gly
		435					440					445			
Arg	Ala	Leu	Gly	Val	Thr	Phe	Phe	Leu	Pro	Glu	Gly	Asp	Ala	Ile	Ser
		450				455					460				
Ala	Ser	Arg	Gln	Lys	Leu	Glu	Ser	Gln	Ile	Ser	Thr	Leu	Tyr	Gly	Gly
465					470					475					480

Arg	Leu	Ala	Glu	Glu	Ile	Ile	Tyr	Gly	Ala	Glu	His	Val	Ser	Thr	Gly	
				485					490						495	
Ala	Ser	Asn	Asp	Ile	Lys	Val	Ala	Thr	Asn	Leu	Ala	Arg	Asn	Met	Val	
			500					505						510		
Thr	Gln	Trp	Gly	Phe	Ser	Asp	Lys	Leu	Gly	Pro	Leu	Leu	Tyr	Ala	Glu	
		515					520					525				
Glu	Glu	Gly	Glu	Val	Phe	Leu	Gly	Arg	Ser	Val	Ala	Lys	Ala	Lys	His	
		530				535					540					
Met	Ser	Asp	Glu	Thr	Ala	Arg	Ile	Ile	Asp	Gln	Glu	Val	Lys	Ala	Leu	
545					550				555						560	
Ile	Glu	Arg	Asn	Tyr	Ala	Arg	Ala	Arg	Gln	Ile	Leu	Asn	Asp	Asn	Met	
			565						570					575		
Asp	Ile	Leu	His	Ser	Met	Lys	Asp	Ala	Leu	Met	Lys	Tyr	Glu	Thr	Ile	
		580						585					590			
Asp	Ala	Pro	Gln	Ile	Asp	Asp	Leu	Met	Ala	Arg	Arg	Glu	Val	Arg	Pro	
		595				600						605				
Pro	Ala	Gly	Trp	Glu	Asp	Pro	Gly	Ala	Ser	Asn	Asn	Ser	Asp	Asn	Asn	
		610				615					620					
Gly	Thr	Pro	Arg	Ala	Pro	Arg	Pro	Val	Asp	Glu	Pro	Arg	Thr	Pro	Asn	
625					630					635					640	
Pro	Gly	Asn	Thr	Met	Ser	Glu	Gln	Leu	Gly	Asp	Lys					
				645					650							

<210> 6182

<211> 375

<212> PRT

<213> Enterobacter cloacae

<400> 6182

Lys	Pro	Cys	Val	Trp	Trp	Lys	Pro	His	Trp	Gln	Arg	Arg	Lys	Thr	Asn	
1				5					10					15		
Ala	Met	Ser	Asn	Arg	Lys	Tyr	Phe	Gly	Thr	Asp	Gly	Ile	Arg	Gly	Arg	
			20					25					30			
Val	Gly	Asp	Ala	Pro	Ile	Thr	Pro	Asp	Phe	Val	Leu	Lys	Leu	Gly	Trp	
		35					40					45				
Ala	Ala	Gly	Lys	Val	Leu	Ala	Arg	His	Gly	Ser	Arg	Lys	Ile	Ile	Ile	
		50				55					60					
Gly	Lys	Asp	Thr	Arg	Ile	Ser	Gly	Tyr	Met	Leu	Glu	Ser	Ala	Leu	Glu	
65					70				75					80		
Ala	Gly	Leu	Ala	Ala	Gly	Leu	Ser	Ala	Ser	Phe	Thr	Gly	Pro	Met		
			85					90					95			
Pro	Thr	Pro	Ala	Val	Ala	Tyr	Leu	Thr	Arg	Thr	Phe	Arg	Ala	Glu	Ala	
			100					105					110			
Gly	Ile	Val	Ile	Ser	Ala	Ser	His	Asn	Pro	Phe	Tyr	Asp	Asn	Gly	Ile	
		115					120					125				
Lys	Phe	Phe	Ser	Ile	Asp	Gly	Thr	Lys	Leu	Pro	Asp	Asp	Val	Glu	Glu	
	130					135					140					
Ala	Ile	Glu	Ala	Glu	Met	Glu	Lys	Glu	Ile	Thr	Cys	Val	Asp	Ser	Ala	
145					150					155					160	
Glu	Leu	Gly	Lys	Ala	Asn	Arg	Ile	Val	Asp	Ala	Ala	Gly	Arg	Tyr	Ile	
			165					170						175		
Glu	Phe	Cys	Lys	Gly	Thr	Phe	Pro	Asn	Glu	Leu	Ser	Leu	Ala	His	Leu	
		180						185					190			
Lys	Ile	Val	Val	Asp	Cys	Ala	Asn	Gly	Ala	Thr	Tyr	His	Ile	Ala	Pro	
		195					200					205				
Asn	Val	Phe	Arg	Glu	Leu	Gly	Ala	Lys	Val	Ile	Thr	Ile	Gly	Cys	Glu	
	210					215					220					
Pro	Asp	Gly	Leu	Asn	Ile	Asn	Glu	Glu	Val	Gly	Ala	Thr	Asp	Val	Arg	
225					230					235					240	
Ala	Leu	Gln	Ala	Arg	Val	Leu	Ala	Glu	Lys	Ala	Asp	Leu	Gly	Ile	Ala	
				245					250					255		

Leu Asp Gly Asp Gly Asp Arg Val Ile Met Val Asp His Glu Gly Asn
 260 265 270
 Lys Val Asp Gly Asp Gln Ile Leu Tyr Ile Ile Ala Arg Glu Gly Leu
 275 280 285
 Arg Gln Gly Gln Leu Arg Gly Gly Ala Val Gly Thr Leu Met Ser Asn
 290 295 300
 Met Gly Leu Glu Leu Ala Leu Lys Gln Leu Gly Ile Pro Phe Val Arg
 305 310 315 320
 Ala Lys Val Gly Asp Arg Tyr Val Leu Glu Lys Leu Gln Glu Lys Gly
 325 330 335
 Trp Arg Ile Gly Ala Glu Asn Ser Gly His Val Ile Leu Leu Asp Lys
 340 345 350
 Thr Thr Thr Gly Asp Gly Ile Val Ala Ala Leu His Phe Ser Leu Gly
 355 360 365
 Val Ala Glu Pro Arg Ile Glu
 370 375

<210> 6183

<211> 726

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (65)

<400> 6183

His Ala Ser Thr Gly Val Glu Asn Ser Pro Thr Pro Val Pro Ile Thr
 1 5 10 15
 Tyr Pro Ala Ser Gly Arg Leu Phe Phe Val Phe His Phe Phe Glu Leu
 20 25 30
 Ser Val Asp Asn Ile Ile Val Phe Arg Val Val Arg Arg Ser Ile Ser
 35 40 45
 Ala Arg Leu Leu Leu Cys Val Leu Leu Leu Ser Asp Phe His Gln Leu
 50 55 60
 Xaa Arg Asn Leu Cys Gln Leu Leu His Leu Arg Phe Asp Val Arg Phe
 65 70 75 80
 Val Phe Ala Phe Gln Arg Arg Phe Gln Arg Ala Gln Cys Ser Phe Asp
 85 90 95
 Cys Ser Phe Val Phe Arg Trp Gln Phe Ile Ala Arg Phe Phe Asn Leu
 100 105 110
 Leu Thr Gly Ala Val Gln Gln Met Val Thr Leu Val Thr Gly Leu Asn
 115 120 125
 Gln Leu Phe Lys Leu Thr Val Gly Phe Arg Val Ser Phe Gly Ile Thr
 130 135 140
 Asn His Phe Phe Asp Phe Arg Phe Val Gln Ala Arg Arg Cys Leu Asp
 145 150 155 160
 Gly Asn Leu Leu Leu Phe Thr Ala Val Phe Val Phe Arg Arg His Val
 165 170 175
 Gln Asp Thr Val Ser Ile Asp Val Glu Gly Asp Phe Asp Leu Trp His
 180 185 190
 Ala Ala Trp Cys Arg Val Asn Thr Val Gln Val Glu Leu Thr Gln Arg
 195 200 205
 Phe Val Ile Arg Arg Ala Leu Thr Leu Thr Leu Asn His Met Asp Gly
 210 215 220
 Tyr Arg Arg Leu Val Val Phe Ser Gly Arg Glu His Leu Ala Val Phe
 225 230 235 240
 Arg Arg Asp Ser Gly Val Phe Val Asp Glu Arg Ser His His Thr Ala
 245 250 255
 His Gly Phe Asp Thr Gln Arg Gln Arg Gly Asn Val Gln Gln Gln Tyr
 260 265 270

Val	Phe	His	Phe	Thr	Gly	Gln	Tyr	Thr	Thr	Leu	Asn	Arg	Ser	Thr	Asp
		275					280					285			
Ser	Asn	Arg	Phe	Val	Arg	Val	His	Val	Phe	Thr	Trp	Leu	Phe	Thr	Lys
	290					295					300				
Glu	Phe	Ser	His	Phe	Leu	Leu	Asn	His	Arg	His	Thr	Ser	Leu	Thr	Thr
305					310					315					320
Tyr	Gln	Asp	Asn	Val	Leu	Asn	Val	Arg	His	Gly	Gln	Ala	Ser	Val	Leu
			325						330					335	
Gln	Cys	Asn	Phe	Gln	Trp	Leu	Asp	Arg	Thr	Val	His	Gln	Val	Phe	Tyr
			340					345					350		
Gln	Ala	Phe	Gln	Phe	Arg	Thr	Gly	His	Phe	Asp	Val	His	Val	Phe	Trp
	355						360					365			
Thr	Gly	Arg	Val	Cys	Ser	Asp	Val	Arg	Gln	Val	His	Val	Gly	Leu	Leu
	370					375					380				
Ser	Gly	Arg	Gln	Leu	Asp	Leu	Arg	Phe	Leu	Ser	Gly	Phe	Phe	Gln	Ala
385					390					395					400
Leu	His	Ser	Gln	Arg	Val	Val	Thr	Gln	Val	Asn	Ala	Leu	Ile	Phe	Leu
			405						410					415	
Glu	Leu	Val	Asn	Glu	Val	Val	Asp	Gln	Thr	Gly	Ile	Glu	Val	Phe	Thr
			420					425					430		
Thr	Gln	Val	Gly	Ile	Thr	Val	Gly	Cys	Gln	Asn	Phe	Glu	Gly	Phe	Phe
	435						440					445			
Ala	Val	Asn	Ile	Val	Asp	Phe	Asp	Asn	Arg	Asn	Ile	Glu	Gly	Thr	Thr
	450					455					460				
Thr	Gln	Val	Val	Asn	Arg	Asp	Ser	Thr	Val	Ala	Asn	Phe	Phe	Ile	Gln
465					470					475					480
Thr	Val	Ser	Gln	Cys	Cys	Cys	Gly	Trp	Phe	Val	Asp	Asp	Thr	Phe	Tyr
			485						490					495	
Phe	Gln	Ala	Cys	Asp	Thr	Ala	Ser	Ile	Phe	Gly	Cys	Leu	Thr	Leu	Ser
			500					505					510		
Ile	Val	Glu	Val	Ser	Arg	Tyr	Gly	Asp	Asn	Ser	Phe	Ser	Tyr	Arg	Phe
	515						520					525			
Thr	Gln	Val	Ile	Phe	Arg	Ser	Phe	Leu	His	Phe	Leu	Gln	His	Phe	Ser
	530					535					540				
Arg	Asp	Leu	Arg	Arg	Cys	Ser	Phe	Gly	Ala	Phe	His	Ile	Lys	Pro	Cys
545					550					555					560
Ile	Ala	Val	Ile	Gly	Cys	Asp	Asp	Phe	Val	Arg	His	Asp	Gly	Asn	Val
			565						570					575	
Thr	Leu	Asn	Phe	Val	Leu	Glu	Ala	Ala	Ala	Asn	Gln	Ala	Phe	Asp	
			580				585					590			
Arg	Lys	Gln	Gly	Val	Leu	Arg	Val	Cys	His	Cys	Leu	Thr	Phe	Ser	Arg
	595						600					605			
Leu	Thr	Asn	Gln	Ser	Phe	Thr	Ile	Leu	Gly	Ile	Ser	Asn	Asp	Arg	Arg
	610					615					620				
Arg	Gly	Ala	Ile	Ala	Leu	Gly	Val	Leu	Gln	His	Thr	Cys	Ser	Ser	Ala
625					630					635					640
Ile	His	Asn	Arg	Tyr	Thr	Arg	Val	Gly	Ser	Thr	Gln	Val	Asp	Thr	Asn
			645						650					655	
Asn	Phe	Thr	His	Leu	Asn	Val	Ser	Thr	Lys	Asn	Ser	Val	Asn	Met	Trp
			660					665					670		
Leu	Cys	Thr	Cys	Asn	Lys	Gly	Arg	Thr	Cys	Phe	Phe	Asn	Cys	Pro	Asp
	675						680					685			
Leu	Ile	Phe	Phe	Arg	Ser	Thr	His	Cys	Gly	Cys	Leu	Gln	Asp	Gly	Val
	690					695					700				
Thr	Thr	Ala	Ser	Ile	Lys	Gly	Gly	Arg	Ile	Lys	Asn	Phe	Leu	Ile	Ser
705					710					715					720
Pro	Pro	Met	Arg	Ser											
				725											

<210> 6184

<211> 229

<212> PRT

<213> Enterobacter cloacae

<400> 6184

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Ser Gly Arg Tyr Arg Asp Tyr Arg Ala Val Leu His Gln Arg Ser Val
1      5      10      15
Arg Ser Val Ala Glu Arg Gly Gly Arg Gly Tyr Cys Gly Ala Gly Val
20      25      30
Ala Glu Arg Leu Gln Arg Pro Thr His Gly Asp Leu Tyr Ser Gly Gly
35      40      45
Asp Gly Ala Val Asp Gly Gly Ala Glu Val Trp Arg Ala Cys His Ala
50      55      60
Gly Gly Arg His Arg Trp Leu Leu Tyr Ser Ala Glu Gly Thr Gly Arg
65      70      75      80
Gln Ile Ala Cys Gln Thr Ala Gly Ala Cys Ala Ser Ser Val Gly Gly
85      90      95
Phe Tyr Asp Pro Ala Ala Val Cys Val Cys Gln Arg Gly Cys Phe Pro
100     105     110
Trp Pro Gly Val Thr Leu Asp Gly Leu Thr Ser Val Leu Pro Leu Gly
115     120     125
Ile Ile Ala Gly Leu Phe Ile Gly Lys Pro Leu Gly Ile Ser Leu Phe
130     135     140
Cys Trp Leu Ala Leu Lys Leu Lys Leu Ala Ser Leu Pro Asn Gly Thr
145     150     155     160
Thr Phe Ser Gln Ile Met Ala Val Gly Val Leu Cys Gly Ile Gly Phe
165     170     175
Thr Met Ser Ile Phe Ile Ser Thr Leu Ala Phe Gly Ala Ser Ala Pro
180     185     190
Glu Leu Ile Val Trp Ala Lys Leu Gly Ile Leu Ile Gly Ser Phe Leu
195     200     205
Ala Ala Val Met Gly Tyr Thr Leu Leu Lys Val Lys Leu Ser Gly Gln
210     215     220
Ala Val Gln Thr
225

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<210> 6185

<211> 638

<212> PRT

<213> Enterobacter cloacae

<400> 6185

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Met Gly Lys Ile Ile Gly Ile Asp Leu Gly Thr Thr Asn Ser Cys Val
1      5      10      15
Ala Ile Met Asp Gly Thr Thr Ala Arg Val Leu Glu Asn Ala Glu Gly
20      25      30
Asp Arg Thr Thr Pro Ser Ile Ile Ala Tyr Thr Gln Asp Gly Glu Thr
35      40      45
Leu Val Gly Gln Pro Ala Lys Arg Gln Ala Val Thr Asn Pro Gln Asn
50      55      60
Thr Leu Phe Ala Ile Lys Arg Leu Ile Gly Arg Arg Phe Gln Asp Glu
65      70      75      80
Glu Val Gln Arg Asp Val Ser Ile Met Pro Tyr Lys Ile Ile Ala Ala
85      90      95
Asp Asn Gly Asp Ala Trp Leu Asp Val Lys Gly Thr Lys Thr Ala Pro
100     105     110
Pro Gln Ile Ser Ala Glu Val Leu Lys Lys Met Lys Lys Thr Ala Glu
115     120     125
Asp Tyr Leu Gly Glu Pro Val Thr Glu Ala Val Ile Thr Val Pro Ala
130     135     140
Tyr Phe Asn Asp Ala Gln Arg Gln Ala Thr Lys Asp Ala Gly Arg Ile
145     150     155     160

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Ala	Gly	Leu	Glu	Val	Lys	Arg	Ile	Ile	Asn	Glu	Pro	Thr	Ala	Ala	Ala
				165					170					175	
Leu	Ala	Tyr	Gly	Leu	Asp	Lys	Glu	Val	Gly	Asn	Arg	Thr	Ile	Ala	Val
			180					185					190		
Tyr	Asp	Leu	Gly	Gly	Gly	Thr	Phe	Asp	Ile	Ser	Ile	Ile	Glu	Ile	Asp
		195					200					205			
Asp	Val	Asp	Gly	Glu	Lys	Thr	Phe	Glu	Val	Leu	Ala	Thr	Asn	Gly	Asp
	210					215					220				
Thr	His	Leu	Gly	Gly	Glu	Asp	Phe	Asp	Thr	Arg	Leu	Ile	Asn	Tyr	Leu
225					230					235					240
Val	Asp	Glu	Phe	Lys	Lys	Asp	Gln	Gly	Ile	Asp	Leu	Arg	Asn	Asp	Pro
				245					250					255	
Leu	Ala	Met	Gln	Arg	Leu	Lys	Glu	Ala	Ala	Glu	Lys	Ala	Lys	Ile	Glu
			260					265					270		
Leu	Ser	Ser	Ala	Gln	Gln	Thr	Asp	Val	Asn	Leu	Pro	Tyr	Ile	Thr	Ala
		275					280					285			
Asp	Ala	Thr	Gly	Pro	Lys	His	Met	Asn	Ile	Lys	Val	Thr	Arg	Ala	Lys
	290					295					300				
Leu	Glu	Ser	Leu	Val	Glu	Asp	Leu	Val	Asn	Arg	Ser	Ile	Glu	Pro	Leu
305					310					315					320
Lys	Val	Ala	Leu	Gln	Asp	Ala	Gly	Leu	Ser	Val	Ser	Asp	Ile	Gln	Asp
				325					330					335	
Val	Ile	Leu	Val	Gly	Gly	Gln	Thr	Arg	Met	Pro	Met	Val	Gln	Lys	Lys
			340					345					350		
Val	Ala	Glu	Phe	Phe	Gly	Lys	Glu	Pro	Arg	Lys	Asp	Val	Asn	Pro	Asp
		355					360					365			
Glu	Ala	Val	Ala	Ile	Gly	Ala	Ala	Val	Gln	Gly	Gly	Val	Leu	Thr	Gly
	370				375					380					
Glu	Val	Lys	Asp	Val	Leu	Leu	Leu	Asp	Val	Thr	Pro	Leu	Ser	Leu	Gly
385					390					395					400
Ile	Glu	Thr	Met	Gly	Gly	Val	Met	Thr	Ala	Leu	Ile	Asn	Lys	Asn	Thr
				405					410					415	
Thr	Ile	Pro	Thr	Lys	His	Ser	Gln	Val	Phe	Ser	Thr	Ala	Glu	Asp	Asn
			420					425					430		
Gln	Ser	Ala	Val	Thr	Ile	His	Val	Ile	Gln	Gly	Glu	Arg	Lys	Arg	Ala
		435					440					445			
Ala	Asp	Asn	Lys	Ser	Leu	Gly	Gln	Phe	Asn	Leu	Asp	Gly	Ile	Asn	Pro
	450					455					460				
Ala	Pro	Arg	Gly	Met	Pro	Gln	Ile	Glu	Val	Thr	Phe	Asp	Ile	Asp	Ala
465					470					475					480
Asp	Gly	Ile	Leu	His	Val	Ser	Ala	Lys	Asp	Lys	Asn	Ser	Gly	Lys	Glu
				485					490					495	
Gln	Lys	Ile	Thr	Ile	Lys	Ala	Ser	Ser	Gly	Leu	Asn	Glu	Ala	Glu	Ile
			500					505					510		
Glu	Lys	Met	Val	Arg	Asp	Ala	Glu	Ala	Asn	Ala	Glu	Ser	Asp	Arg	Lys
		515					520					525			
Phe	Glu	Glu	Leu	Val	Gln	Thr	Arg	Asn	Gln	Gly	Asp	His	Leu	Leu	His
530						535					540				
Ser	Thr	Arg	Lys	Gln	Val	Glu	Glu	Ala	Gly	Asp	Lys	Leu	Pro	Ala	Glu
545					550					555					560
Asp	Lys	Thr	Ala	Ile	Glu	Thr	Ala	Leu	Ser	Ala	Leu	Glu	Thr	Ser	Leu
				565					570					575	
Lys	Gly	Glu	Asp	Lys	Ala	Asp	Ile	Glu	Ala	Lys	Met	Gln	Glu	Leu	Ala
			580					585					590		
Gln	Val	Ser	Gln	Lys	Leu	Met	Glu	Ile	Ala	Gln	Gln	Gln	His	Ala	Gln
		595					600					605			
Gln	Gln	Ala	Gly	Ala	Asp	Ala	Ser	Ala	Asn	Asn	Ala	Lys	Asp	Asp	Asp
	610					615					620				
Val	Val	Asp	Ala	Glu	Phe	Glu	Glu	Val	Lys	Asp	Lys	Lys			
625					630					635					

<210> 6186
 <211> 337
 <212> PRT
 <213> Enterobacter cloacae

<400> 6186
 Ser Val Phe Thr Asp Leu Phe Ala Leu Ile Leu Trp Phe Tyr Arg Gly
 1 5 10 15
 Ile Val Val Lys Glu Ser Leu Asn Val Lys Leu Leu His Arg Phe Phe
 20 25 30
 Ser Ser Glu Ala Ser Gly Gly Val Ile Leu Ile Ile Ala Ala Ala Ala
 35 40 45
 Ala Met Leu Leu Ala Asn Met Gly Met Thr Arg Asp Leu Tyr His Ala
 50 55 60
 Phe Leu Glu Thr Pro Val Glu Leu Lys Val Gly Ala Leu Glu Ile Asn
 65 70 75 80
 Lys Asn Met Leu Leu Trp Ile Asn Asp Ala Leu Met Ala Val Phe Phe
 85 90 95
 Leu Leu Val Gly Leu Glu Val Lys Arg Glu Leu Val Ser Gly Ser Leu
 100 105 110
 Ala Ser Arg Gln Arg Ala Ala Phe Pro Val Ile Ala Ala Ile Gly Gly
 115 120 125
 Met Ile Val Pro Ala Leu Leu Phe Leu Ala Phe Ala Trp Gln Asp Pro
 130 135 140
 Val Ala Arg Asp Gly Trp Ala Ile Pro Ala Ala Thr Asp Ile Ala Phe
 145 150 155 160
 Ala Leu Gly Val Leu Ser Leu Leu Gly Ser Arg Val Pro Val Ala Leu
 165 170 175
 Lys Ile Phe Leu Met Ala Leu Ala Ile Ile Asp Asp Leu Gly Ala Ile
 180 185 190
 Val Ile Ile Ala Leu Phe Tyr Thr Ser Asp Leu Ser Val Leu Ser Leu
 195 200 205
 Ser Val Ala Ala Val Ala Ile Ala Val Leu Ala Leu Leu Asn Val Phe
 210 215 220
 Asn Val Arg Arg Thr Gly Ile Tyr Ile Leu Val Gly Met Val Leu Trp
 225 230 235 240
 Thr Ala Val Leu Lys Ser Gly Val His Ala Thr Leu Ala Gly Val Ile
 245 250 255
 Val Gly Phe Phe Ile Pro Leu Lys Glu Gln Asp Gly Lys Ser Pro Ala
 260 265 270
 Arg Gln Leu Glu His Val Leu His Pro Trp Val Gly Phe Met Ile Leu
 275 280 285
 Pro Leu Phe Ala Phe Ala Asn Ala Gly Val Ser Pro Gly Pro Gly Leu
 290 295 300
 Pro Trp Thr Asp Ser Pro Leu Cys Cys Arg Trp Val Ser Ser Pro Val
 305 310 315 320
 Cys Leu Leu Val Ser Arg Trp Ala Ser Ala Cys Ser Ala Gly Trp Arg
 325 330 335

<210> 6187
 <211> 329
 <212> PRT
 <213> Enterobacter cloacae

<400> 6187
 Ser Cys Pro Asp Arg Leu Ser Arg His Asn Arg Lys Pro Gly Glu Gly
 1 5 10 15
 Lys Pro Ser Pro Asp Lys Leu Ser Gly Ser Glu Asn Val Met Ser His
 20 25 30

Leu Asn Tyr Asn His Leu Tyr Tyr Phe Trp His Val Tyr Lys Gln Gly
 35 40 45
 Ser Val Val Gly Ala Ala Glu Ala Leu Tyr Leu Thr Pro Gln Thr Ile
 50 55 60
 Thr Gly Gln Ile Lys Ala Leu Glu Glu Arg Leu Gln Gly Lys Leu Phe
 65 70 75 80
 Lys Arg Lys Gly Arg Gly Ile Glu Pro Ser Glu Leu Gly Glu Leu Val
 85 90 95
 Phe Arg Tyr Ala Asp Lys Met Phe Thr Leu Ser Gln Glu Met Leu Asp
 100 105 110
 Ile Val Asn Tyr Arg Lys Glu Leu Asn Leu Leu Phe Asp Val Gly Val
 115 120 125
 Ala Asp Ala Leu Ser Lys Arg Leu Val Ser Gly Val Leu Asp Ala Ala
 130 135 140
 Val Val Glu Asp Glu Gln Ile His Leu Arg Cys Phe Glu Ser Thr His
 145 150 155 160
 Glu Met Leu Leu Glu Gln Leu Ser Gln His Lys Leu Asp Met Ile Ile
 165 170 175
 Ser Asp Cys Pro Ile Asp Ser Thr Gln Gln Glu Gly Leu Phe Ser Val
 180 185 190
 Lys Ile Gly Glu Cys Gly Val Ser Phe Trp Cys Ile Asn Pro Pro Pro
 195 200 205
 Glu Lys Pro Phe Pro Ala Cys Leu Glu Glu Arg Arg Leu Leu Val Pro
 210 215 220
 Gly Arg Arg Ser Met Leu Gly Arg Lys Leu Leu Asn Trp Phe Asn Ser
 225 230 235 240
 Gln Gly Leu Asn Val Glu Ile Leu Gly Glu Phe Asp Asp Ala Ala Leu
 245 250 255
 Met Lys Ala Phe Gly Glu Ala His Asn Ala Ile Phe Val Ala Pro Thr
 260 265 270
 Leu Tyr Val His Asp Leu Tyr Ser Asp Asp Lys Ile Thr Glu Ile Gly
 275 280 285
 Arg Val Asp Asn Val Met Glu Tyr His Ala Ile Phe Ala Glu Arg
 290 295 300
 Met Ile Gln His Pro Ala Val Gln Arg Ile Cys Asn Arg Asp Tyr Ser
 305 310 315 320
 Ala Leu Phe Thr Pro Pro Ala Ile
 325

<210> 6188

<211> 372

<212> PRT

<213> Enterobacter cloacae

<400> 6188

Ala Phe Arg Lys Leu Arg Lys Ser Val Lys Ser Lys Lys Ala Tyr Lys
 1 5 10 15
 Arg Leu Ala Met Lys Phe His Pro Asp Arg Asn Gln Gly Asp Lys Glu
 20 25 30
 Ala Glu Ala Lys Phe Lys Glu Ile Lys Glu Ala Tyr Glu Val Leu Thr
 35 40 45
 Asp Ala Gln Lys Arg Ala Ala Tyr Asp Gln Tyr Gly His Ala Ala Phe
 50 55 60
 Glu Gln Gly Gly Met Gly Gly Gly Gly Phe Gly Gly Gly Gly Phe Gly
 65 70 75 80
 Gly Gly Ala Asp Phe Ser Asp Ile Phe Gly Asp Val Phe Gly Asp Ile
 85 90 95
 Phe Gly Gly Gly Arg Gly Arg Gln Arg Ala Ala Arg Gly Ala Asp Leu
 100 105 110
 Arg Tyr Asn Met Asp Leu Thr Leu Glu Glu Ala Val Arg Gly Val Thr
 115 120 125

Lys Glu Ile Arg Ile Pro Thr Leu Glu Glu Cys Asp Val Cys His Gly
 130 135 140
 Ser Gly Ala Lys Ala Gly Thr Gln Pro Gln Thr Cys Pro Thr Cys His
 145 150 155 160
 Gly Ser Gly Gln Val Gln Met Arg Gln Gly Phe Phe Ala Val Gln Gln
 165 170 175
 Ala Cys Pro His Cys His Gly Arg Gly Thr Leu Ile Lys Asp Pro Cys
 180 185 190
 Thr Lys Cys His Gly His Gly Arg Val Glu Lys Thr Lys Thr Leu Ser
 195 200 205
 Val Lys Ile Pro Ala Gly Val Asp Thr Gly Asp Arg Ile Arg Leu Ala
 210 215 220
 Gly Glu Gly Glu Ala Gly Glu His Gly Ala Pro Ala Gly Asp Leu Tyr
 225 230 235 240
 Val Gln Val Gln Val Lys Gln His Ala Ile Phe Glu Arg Glu Gly Asn
 245 250 255
 Asn Leu Tyr Cys Glu Val Pro Ile Asn Phe Ala Met Ala Ala Leu Gly
 260 265 270
 Gly Glu Ile Glu Val Pro Thr Leu Asp Gly Arg Val Asn Leu Lys Ile
 275 280 285
 Pro Gly Glu Thr Gln Thr Gly Lys Leu Phe Arg Met Arg Gly Lys Gly
 290 295 300
 Val Lys Ser Val Arg Gly Gly Ala Gln Gly Asp Leu Leu Cys Arg Val
 305 310 315 320
 Val Val Glu Thr Pro Val Gly Leu Asn Asp Lys Gln Lys Gln Leu Leu
 325 330 335
 Lys Glu Leu Gln Glu Ser Phe Gly Gly Pro Thr Gly Glu Lys Asn Ser
 340 345 350
 Pro Arg Ser Lys Ser Phe Phe Asp Gly Val Lys Lys Phe Phe Asp Asp
 355 360 365
 Leu Thr Arg
 370

<210> 6189

<211> 106

<212> PRT

<213> Enterobacter cloacae

<400> 6189

Arg Gly Ala Ser Gly Gly Ser Trp Ala Lys Val Leu Thr Thr Asp Gln
 1 5 10 15
 Lys Arg Glu Ala Val Met Leu Met Cys Asp Ala Thr Gly Leu Ser Gln
 20 25 30
 Arg Arg Ala Cys Arg Leu Thr Ser Leu Ser Leu Ser Thr Cys Arg Tyr
 35 40 45
 Glu Ala His Arg Pro Ala Ala Asp Ala His Leu Ser Gly Arg Ile Thr
 50 55 60
 Glu Leu Ala Leu Glu Arg Arg Phe Gly Tyr Arg Arg Asn Leu Ala
 65 70 75 80
 Asn Cys Cys Pro Val Lys Gly Phe Met Leu Ile Ile Ser Ala Gly Thr
 85 90 95
 Gly Phe Ile Thr Ser Val Ala Trp Ala
 100 105

<210> 6190

<211> 98

<212> PRT

<213> Enterobacter cloacae

<400> 6190

Cys Leu His Lys Pro His Glu Asp Ile Pro Met Lys Lys Arg Phe Ser


```

1           5           10           15
Asp Glu Gln Ile Ile Ser Ile Leu Arg Glu Ala Glu Ala Gly Val Pro
                20                25                30
Ala Arg Glu Leu Cys Arg Lys His Ala Ile Ser Asp Ala Thr Phe Tyr
                35                40                45
Ile Trp Arg Lys Lys Tyr Gly Gly Met Glu Val Pro Glu Val Lys Arg
                50                55                60
Leu Lys Ser Leu Glu Glu Glu Asn Ala Arg Leu Lys Lys Leu Leu Ala
65                70                75                80
Glu Ala Met Leu Asp Lys Glu Ala Leu Gln Val Ala Leu Gly Arg Lys
                85                90                95
Tyr

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<210> 6191

<211> 187

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (7)

<400> 6191

```

Lys Gly Trp Gln Gln Asn Xaa Cys Arg Cys Ser Val Pro Ala Ala Pro
1           5           10           15
Asn Leu Thr Trp Ser Met Asp Phe Val Met Asp Ala Leu Ser Thr Gly
                20                25                30
Arg Arg Ile Lys Cys Leu Thr Cys Val Asp Asp Phe Thr Lys Glu Cys
                35                40                45
Leu Thr Val Thr Val Ala Phe Gly Ile Ser Gly Val Gln Val Thr Arg
50                55                60
Ile Leu Asp Ser Ile Ala Leu Phe Arg Gly Tyr Pro Ala Thr Ile Arg
65                70                75                80
Thr Asp Gln Gly Pro Glu Phe Thr Cys Arg Ala Leu Asp Gln Trp Ala
                85                90                95
Phe Glu His Gly Val Glu Leu Arg Leu Ile Gln Pro Gly Lys Pro Thr
                100                105                110
Gln Asn Gly Phe Ile Glu Ser Phe Asn Gly Arg Phe Arg Asp Glu Cys
                115                120                125
Leu Asn Glu His Trp Phe Ser Asp Ile Val His Ala Arg Lys Ile Ile
130                135                140
Asn Asp Trp Arg Gln Asp Tyr Asn Glu Cys Arg Pro His Ser Thr Leu
145                150                155                160
Asn Tyr Gln Thr Pro Ser Glu Phe Ala Ala Gly Trp Arg Lys Gly His
                165                170                175
Ser Glu Asn Glu Asp Ser Asp Val Thr Asn
                180                185

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<210> 6192

<211> 806

<212> PRT

<213> Enterobacter cloacae

<400> 6192

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Gly Thr Gly Asn Trp Leu Gln Asn Cys Asn Val Glu Thr Ser Lys Lys
1           5           10           15
Thr Val Thr Thr His Tyr Pro Asp Tyr Lys Glu Phe Tyr Cys Asn Ser
                20                25                30
Pro Lys Gln Asp Asn Phe Ser Ser Cys Thr Ile Thr Arg Asp Phe Ser
35                40                45

```

Val	Pro	Val	Tyr	Ile	Ser	Gly	Gly	Asn	Gly	Asp	Met	Ser	Met	Cys	Gly
	50					55					60				
Asp	Asn	Cys	Val	Arg	Ile	Trp	Phe	Gly	Arg	Arg	Asp	Asp	Asn	Tyr	Trp
65					70					75					80
Ser	Asp	Gly	Val	Tyr	Asp	Asn	Glu	Leu	Thr	Leu	Lys	Phe	His	Pro	Asp
				85					90					95	
Ala	Lys	Leu	Ala	Ser	Ala	Lys	Ile	Val	Asn	Ala	Glu	Trp	Asp	Asp	His
			100					105					110		
Met	Arg	Val	Thr	Leu	Asp	Gly	Thr	Gln	Ile	Phe	Ala	His	Ile	Asp	Gly
		115					120					125			
Ala	Tyr	Arg	Glu	Ser	Asp	Tyr	Pro	Ala	Pro	Lys	Gly	Ser	Trp	Glu	Leu
	130					135					140				
Lys	Lys	Ser	Trp	Lys	Leu	Asp	Lys	Val	Tyr	Asp	Val	Thr	Asp	Lys	Val
145					150					155					160
Arg	Lys	Ser	Val	Tyr	Glu	Glu	Pro	Asp	Arg	Glu	Val	Thr	Met	Ala	Ser
				165					170					175	
Arg	Val	Trp	Val	Gly	Gly	Lys	Gly	Glu	Gly	Tyr	Phe	Glu	Val	Glu	Leu
			180					185					190		
Thr	Phe	Glu	Asn	Met	Lys	Leu	Glu	Asp	Lys	His	Val	Gln	Glu	Pro	Ala
		195					200					205			
Gly	Cys	Tyr	Asp	Ala	Val	Gln	Ala	Pro	Asn	Thr	Phe	Cys	Arg	Phe	Asp
	210					215					220				
Arg	Phe	Lys	Asp	Met	Asp	Val	Gly	Thr	Lys	Arg	Leu	Pro	Glu	Ser	Val
225					230					235					240
Leu	Ser	Leu	Ala	Lys	Pro	Leu	Tyr	Glu	Gly	Asp	Lys	Gly	Phe	Leu	Thr
				245					250					255	
Trp	Lys	Thr	Asn	Leu	Glu	Gly	Tyr	Phe	Cys	Asp	Pro	Leu	Ala	Lys	Asp
			260					265					270		
Lys	Ile	Cys	Ser	Tyr	Asp	Ala	Ser	Gly	Lys	Ile	Met	Lys	Asp	Ala	Asn
	275						280				285				
Gly	Lys	Asp	Leu	Cys	Tyr	Asn	Tyr	Glu	Glu	Ile	Lys	Ser	Met	Pro	Asp
	290					295					300				
Ala	Cys	Ser	Ala	Tyr	Lys	Asn	Asp	Ala	Ala	Cys	Val	Leu	Asp	Lys	Gln
305					310					315					320
Thr	Cys	Ala	Glu	Gly	Trp	Phe	Asp	Glu	Gly	Thr	Asn	Ser	Cys	Tyr	Met
				325					330					335	
Tyr	Glu	Gln	Lys	Tyr	Thr	Cys	Asp	Arg	Gly	Lys	Asp	Val	Val	Arg	Glu
			340					345					350		
Val	Glu	Ser	Ser	Thr	Asn	Ala	Cys	Val	Gly	Met	Ile	Pro	Cys	Ser	Gly
		355					360					365			
Gly	Thr	Cys	Glu	Thr	Gly	Pro	Lys	Glu	Glu	Asn	Asn	Asp	Phe	Gly	Lys
	370					375					380				
Val	Ala	Ala	Tyr	Ser	Asn	Met	Val	Gln	Tyr	Met	Gln	Gly	Glu	Ala	Lys
385					390					395					400
Cys	Glu	Asp	Pro	Asn	Asp	Ala	Asn	Ser	Cys	Ser	Val	Phe	Glu	Gly	Lys
				405					410					415	
Pro	Glu	Trp	Cys	Gly	Arg	Ser	Val	Gly	Phe	Val	Asn	Gly	Leu	Ala	Lys
			420					425					430		
Thr	Asp	Cys	Cys	Glu	Ala	Pro	Gln	Gly	Thr	Ala	Gly	Ala	Leu	Glu	Gly
		435					440					445			
Ile	Met	Leu	Ala	Gly	Ser	Met	Ile	Arg	Asn	Thr	Asn	Trp	Thr	Arg	Val
	450					455					460				
Asn	Ala	Gln	Leu	Ile	Lys	Trp	Thr	Gly	Gly	Asp	Thr	Gly	Thr	Trp	Ala
465					470					475					480
Ser	Met	Ser	Asn	Ala	Val	Gly	Glu	Trp	Thr	Ala	Ser	Ala	Gly	Lys	Thr
				485					490					495	
Val	Gly	Gln	Met	Trp	Asn	Asn	Val	Thr	Ser	Ser	Leu	Thr	Ser	Val	Tyr
			500					505					510		
Glu	Asn	Val	Ala	Gly	Asn	Leu	Ser	Arg	Ala	Val	Gly	Ser	Ser	Ala	Thr
		515					520					525			
Ser	Gly	Gly	Ala	Gly	Gly	Ala	Gly	Gln	Leu	Ala	Gln	Glu	Thr	Met	Ser

530	535	540
Ser Phe Gly Ile Gly Gln Leu Lys Gln Met Ala Met Lys Lys Ala Tyr		
545	550	555
Glu Leu Leu Pro Asp Thr Val Arg Asp Phe Val Phe Lys Asn Val Ala		560
	565	570
Thr Thr Gly Gly Glu Val Val Phe Ser Ala Ala Val Gln Asn Phe Met		575
	580	585
Leu Ala Leu Asn Val Ile Gly Trp Ile Tyr Thr Ala Tyr Gln Val Thr		590
	595	600
Lys Met Leu Leu Glu Met Leu Val Ala Cys Asp Gln Lys Glu Met Glu		605
	610	615
Ala Ser Ile His Lys Asn Gln Lys Ser Cys Phe Thr Leu Asp Thr Glu		620
625	630	635
Arg Cys Val Lys Tyr Leu Asn Val Gly Phe Thr Lys Lys Cys Val Lys		640
	645	650
Lys Ala Thr Asp Met Cys Cys Tyr Asn Ser Met Leu Ser Arg Val Ile		655
	660	665
Met Gln Gln Ala Tyr Pro Gln Leu Gly Ile Asp Pro Val Ala Ser Asn		670
	675	680
Cys Val Gly Leu Ser Ile Lys Gln Ile Gln Gln Leu Asp Phe Asp Lys		685
	690	695
Ile Asp Leu Thr Glu Trp Ile Asn Asp Ala Val Gln Val Gly Glu Val		700
705	710	715
Pro Asp Gln Tyr Ser Lys Phe Ser Glu Glu Ser Ile Val Glu Asn Leu		720
	725	730
Pro Phe Gln Asn Glu Asn Tyr Gln Leu Pro Ser Glu Arg Thr Lys Glu		735
	740	745
Ala Met Gly Gly Glu Glu Asn Met Ile Lys Ala Arg Gln Glu Asn Ala		750
	755	760
Gln Ala Ile Lys Glu Glu Asn Val Asp Cys Ser Tyr Leu Pro Arg Pro		765
	770	775
Ala Ile Cys Glu Val Gly Ser Thr Thr Leu Asp Pro Val Thr Gly Lys		780
785	790	795
Gln Leu Pro Lys Tyr		800
	805	

<210> 6193

<211> 560

<212> PRT

<213> Enterobacter cloacae

<400> 6193

Leu Leu Lys Arg Ser Asn Glu Val Glu Met Gly Lys Pro Thr Glu Glu	
1	5
Gln Arg Pro Val Ile Glu Asn Ala Ser Ala Asn Asn Met Val Ile Ala	
	20
Ala Pro Gly Ser Gly Lys Ser Phe Thr Met Ile Glu Ala Val Ile Ser	
	35
Ile Leu Lys Lys Tyr Pro Tyr Ala Arg Ile Gly Met Val Thr Phe Thr	
	50
Arg Ala Ala Thr Asn Ala Leu Ala Ala Lys Leu Gln Lys Arg Leu Ser	
65	70
Lys Lys Asp Leu Asp Arg Val Leu Val Asp Thr Phe His Gly Leu Val	
	85
Lys Lys Gln Leu Asp Met Ile Arg Trp Pro Gly Lys Met Leu Ile Gly	
	100
Pro Ala Gln Arg Ser Val Ile His Arg Ala Leu Lys Glu Ser Gly Val	
	115
Thr Met Lys Phe Ala Glu Ala Glu Phe Val Ile Asp Ala Ile Gly Arg	
	130
Glu Met Asp Thr Asp Val Ile Ser Val Arg His Asn Arg Gln Gln Ile	

145					150					155				160
His	Leu	Phe	Asn	Thr	Tyr	Gln	Ala	Leu	Cys	Gln	Lys	Asp	His	Val
				165					170					175
Asp	Leu	Asn	Ala	Leu	Ser	Lys	Phe	Val	Val	Gly	Gln	Met	His	Ser
			180					185					190	
Lys	Met	Arg	Thr	Leu	Asp	Leu	Thr	His	Leu	Ile	Val	Asp	Glu	Val
		195					200					205		
Asp	Thr	Asp	Ser	Ile	Gln	Phe	Ser	Trp	Ile	Ala	Leu	His	Thr	Arg
	210					215				220				
Gly	Val	Tyr	Thr	Ser	Ile	Val	Gly	Asp	Asp	Asp	Gln	Ala	Ile	Tyr
225					230					235				240
Phe	Arg	Ser	Ser	Gly	Gly	Val	Lys	Ile	Phe	Gln	Gln	Phe	Glu	Lys
				245					250					255
Phe	Arg	Pro	Asn	Ile	Phe	Tyr	Leu	Asn	Thr	Cys	Phe	Arg	Cys	Glu
			260					265					270	
Glu	Ile	Leu	Glu	Val	Ala	Gly	Ala	Leu	Ile	Gly	Lys	Asn	Val	Tyr
		275				280						285		
Tyr	Ala	Lys	Glu	Leu	Arg	Ser	Ala	Lys	Lys	Gly	Gly	Gly	Lys	Val
	290					295				300				
Phe	Arg	Ser	Tyr	Val	Asp	Met	Glu	Glu	Gln	Ile	Gln	Gly	Ile	Leu
305					310					315				320
Leu	Ile	Asn	Gln	Asp	Pro	His	Gly	Trp	Ala	Ile	Leu	Ser	Arg	Asn
				325					330					335
Ala	His	Leu	Asp	Glu	Leu	Glu	Ser	Leu	Ile	Glu	Gln	Pro	Val	Ile
			340					345					350	
Tyr	Gly	Gly	Lys	Ser	Phe	Trp	Asp	Glu	Lys	Glu	Thr	Ser	Asp	Val
		355					360					365		
Ser	Leu	Met	Ala	Phe	Phe	Arg	Gln	Ser	Asn	Asp	Pro	Arg	Leu	Met
	370					375				380				
Arg	Val	Leu	Ala	Leu	Phe	Gly	Glu	Gln	Glu	Ser	Val	Leu	Asp	Glu
385					390					395				400
Ala	Leu	Ser	Met	Arg	Gly	Arg	Lys	Val	Thr	Phe	Gly	Asp	Leu	Ala
				405					410					415
Pro	Glu	Asp	Ser	Ser	Leu	Glu	Thr	Lys	Thr	Leu	His	Ser	Asn	Phe
			420					425					430	
Arg	Phe	Thr	Gln	Glu	Ser	Ser	Asp	Lys	Val	Glu	Ile	Ala	Lys	Arg
		435					440					445		
Ala	Asn	Leu	Thr	Lys	Trp	Met	Glu	Ser	Ser	Ser	Ile	Lys	Met	Arg
	450					455					460			
Asn	Lys	Gly	Thr	Ala	Thr	Leu	Thr	Lys	Ile	Ala	Leu	Asp	Thr	Cys
465					470					475				480
Gln	Trp	Ala	Glu	Lys	Thr	Gly	Trp	Met	Asn	Met	Ile	Asn	Arg	Ala
				485					490					495
Ala	Met	Ser	Leu	Gly	Pro	Arg	Lys	Lys	Asp	Glu	Glu	Tyr	Ser	Pro
			500					505					510	
Lys	Val	Val	Leu	Ser	Thr	Leu	His	Gly	Ser	Lys	Gly	Leu	Glu	Trp
		515					520					525		
Lys	Val	Ile	Ile	Met	Ser	Cys	Asn	Ala	Asp	Gln	Ile	Pro	Ser	Lys
	530					535				540				
Ser	Val	Gly	Glu	Glu	Ala	Ile	Lys	Lys	Glu	Arg	Arg	Leu	Leu	Tyr
545					550				555					560

<210> 6194

<211> 107

<212> PRT

<213> Enterobacter cloacae

<400> 6194

Leu	Lys	Val	Tyr	Leu	Met	Lys	Lys	Thr	Thr	Ser	Arg	Lys	Ala	Ala	Arg
1				5				10						15	
Arg	Pro	Ala	Lys	His	Thr	Asp	Leu	Tyr	Arg	Gln	Ile	Thr	Asp	Arg	Ile

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<210> 6195
<211> 300
<212> PRT
<213> Enterobacter cloacae
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```
<210> 6196
<211> 243
<212> PRT
<213> Enterobacter cloacae
```

<400> 6196

Leu Thr Gly Arg Arg Ser Gln Ala Gly Gly Gln Val Arg Lys Gly Glu
 1 5 10 15
 Lys Ala Thr Leu Ala Val Val Tyr Lys Asp Trp Thr Lys Gln Ala Glu
 20 25 30
 Asp Arg Glu Gly Asn Arg Leu Tyr Asp Ser Asp Gly Lys Pro Leu Thr
 35 40 45
 Glu Thr Val Pro Met Leu Lys Pro Leu Gln Leu Phe Asn Ala Glu Gln
 50 55 60
 Cys Glu Gly Leu Pro Ala Glu Val Ala Ala Ser Pro Glu Gln Pro Pro
 65 70 75 80
 Ala Val Asp Glu Asp Gly Ile Leu Ser Pro Asp Val Met Asp Arg Val
 85 90 95
 Leu Arg Met Val Asn Ala Thr Gly Val Lys His Arg Met Leu Pro Gln
 100 105 110
 Asn Arg Ala Tyr Tyr Arg Pro Leu Thr Asp Glu Ile Val Met Pro Val
 115 120 125
 Ala Gly Gln Phe Phe Thr Glu Ala Asp Trp Trp Ser Thr Leu Leu His
 130 135 140
 Glu Leu Val His Ser Thr Gly His Thr Lys Arg Leu Asn Arg Glu Gly
 145 150 155 160
 Ile Thr Ser Ser Ser Arg Gln Phe Gly Asp Pro Val Tyr Ala Phe Glu
 165 170 175
 Glu Leu Ile Ala Glu Met Gly Ser Ala Phe Leu Cys Ala Gln Leu Gly
 180 185 190
 Val Ser Gly Glu Val Gln His Asp Ser Tyr Val Asp His Trp Leu Lys
 195 200 205
 Val Leu Lys Ser Asp Lys Lys Ala Leu Phe Arg Ala Cys Arg His Ala
 210 215 220
 Arg Glu Ala Ser Glu Tyr Leu Leu Ala Leu Pro Gly Arg Gln Thr Val
 225 230 235 240
 Ala Ala

<210> 6197

<211> 64

<212> PRT

<213> Enterobacter cloacae

<400> 6197

Glu Tyr Phe Ala Asp Arg Gln Leu Arg Gly Glu Asp Ile Gln Glu Leu
 1 5 10 15
 Glu His Gln Ser Gly Lys Leu Ala Asp Trp Val Arg Asp Leu Leu Cys
 20 25 30
 Arg Lys Ser Asn Phe Val Val Thr Cys Ala Leu Ala Asn Lys Leu Ala
 35 40 45
 Arg Ile Ala Trp Ala Leu Thr Ala Arg Gln Gln Thr Tyr Val Ala
 50 55 60

<210> 6198

<211> 160

<212> PRT

<213> Enterobacter cloacae

<400> 6198

Arg Asn Asp Ile Asp Phe Gly Leu Glu Leu Ala Thr Thr Ser Ser Thr
 1 5 10 15
 Arg Ser Gly His Gly Leu Pro Leu Val Ala Leu Gly Ala Gly Lys Arg
 20 25 30
 Leu Thr Met Gln Asn Arg Gly Glu Leu Phe His Lys Val Val Val Val

```

<210> 6199
<211> 150
<212> PRT
<213> Enterobacter cloacae

<400> 6199
Arg Ser Leu Lys Ala Pro Thr Phe Leu Val Leu Pro Gly Cys Lys Val
1      5      10      15
Asn Thr Thr Leu Phe Arg Trp Pro Val Arg Val Tyr Tyr Glu Asp Thr
20     25     30
Asp Ala Gly Gly Val Val Tyr His Ala Ser Tyr Val Ala Phe Tyr Glu
35     40     45
Arg Ala Arg Thr Glu Met Leu Arg His His His Phe Ser Gln Gln Val
50     55     60
Leu Leu Ala Glu Arg Val Ala Phe Val Val Arg Lys Met Thr Leu Glu
65     70     75     80
Tyr Phe Ala Pro Ala Arg Leu Asp Asp Met Leu Glu Val Gln Thr Glu
85     90     95
Ile Thr Ser Met Arg Gly Thr Ser Leu Val Phe Thr Gln Arg Ile Val
100    105    110
Asn Ala Glu Asn Thr Val Leu Asn Ser Ala Glu Val Leu Ile Val Cys
115    120    125
Val Asp Pro Thr Ile Met Lys Pro Arg Ala Leu Pro Lys Ser Ile Val
130    135    140
Ala Glu Phe Lys Gln
145                                150

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<210> 6200
<211> 376
<212> PRT
<213> Enterobacter cloacae

<400> 6200
Leu Ser Leu Phe Asp His Leu Arg Ser Phe Trp Glu Pro Ile Val Ser
1          5          10          15
Lys Ala Thr Glu Gln Asn Asp Lys Leu Lys Arg Ala Ile Ile Val Ser
          20          25          30
Ala Val Leu His Val Phe Leu Phe Ala Ala Leu Ile Trp Ser Ser Phe
          35          40          45
Asp Glu His Leu Asp Ala Ser Gly Gly Asp Gly Gly Ser Ser Ile Asp
          50          55          60
Ala Val Met Val Asp Pro Gly Ala Val Val Gln Asn Tyr Asn Arg Gln
65          70          75          80
Gln Gln Gln Gln Ala Ser Ala Lys Arg Ala Glu Glu Gln Arg Glu Lys
          85          90          95

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Gln Ala Gln Gln Gln Ala Glu Glu Leu Arg Glu Lys Gln Ala Ala Glu
 100 105 110
 Gln Glu Arg Leu Lys Gln Leu Glu Lys Glu Arg Leu Gln Ala Gln Glu
 115 120 125
 Ala Ala Lys Glu Gln Ala Glu Gln Gln Lys Gln Ala Glu Ala Ala Ala
 130 135 140
 Lys Lys Ala Gln Glu Gln Gln Lys Gln Ala Glu Glu Ala Ala Ala Lys
 145 150 155 160
 Ala Ala Ala Asp Ala Lys Ala Gln Ala Asp Ala Gln Ala Lys Leu Ala
 165 170 175
 Ala Glu Ala Ala Lys Lys Ala Ala Ala Asp Ala Gln Lys Lys Ala Glu
 180 185 190
 Ala Glu Ala Ala Lys Lys Ala Ala Ala Asp Ala Lys Lys Lys Ala Glu
 195 200 205
 Ala Glu Ala Ala Lys Lys Ala Ala Ala Asp Ala Gln Lys Lys Ala Glu
 210 215 220
 Ala Glu Ala Ala Lys Lys Ala Ala Gln Glu Ala Glu Lys Lys Ala Ala
 225 230 235 240
 Ala Asp Ala Ala Lys Lys Ala Ala Ala Glu Lys Ala Ala Ala Glu
 245 250 255
 Lys Ala Ala Ala Ala Glu Lys Ala Ala Ala Glu Lys Lys Ala Ala Ala
 260 265 270
 Glu Lys Ala Ala Ala Asp Lys Lys Ala Ala Ala Glu Lys Ala Ala Ala
 275 280 285
 Lys Lys Ala Ala Ala Ala Glu Lys Ala Ala Ala Ala Gly Val Asp Asp
 290 295 300
 Leu Leu Gly Asp Leu Ser Ser Gly Lys Asn Ala Pro Lys Thr Gly Gly
 305 310 315 320
 Gly Ala Lys Gly Ser Asn Ala Ala Pro Ala Gly Ser Gly Asn Thr Lys
 325 330 335
 Asn Asn Gly Ala Ser Gly Ala Glu Ile Asn Asp Tyr Lys Asn Gln Ile
 340 345 350
 Ala Ala Ala Ile Ala Ser Arg Leu Asn Asp Lys Ser Val Leu His Arg
 355 360 365
 Arg Gly Trp Lys Glu Glu Pro Ser
 370 375

<210> 6201

<211> 505

<212> PRT

<213> Enterobacter cloacae

<400> 6201

Arg Phe Leu Phe Val Pro Leu Thr Leu Gly Met Ala Phe Leu Leu Ala
 1 5 10 15
 Ile Met Glu Thr Val Tyr Val Leu Ser Gly Lys Gln Ile Tyr Lys Asp
 20 25 30
 Met Thr Lys Phe Trp Gly Lys Leu Phe Gly Ile Asn Phe Ala Leu Gly
 35 40 45
 Val Ala Thr Gly Leu Thr Met Glu Phe Gln Phe Gly Thr Asn Trp Ser
 50 55 60
 Tyr Tyr Ser His Tyr Val Gly Asp Ile Phe Gly Ala Pro Leu Ala Ile
 65 70 75 80
 Glu Gly Leu Met Ala Phe Phe Leu Glu Ser Thr Phe Val Gly Leu Phe
 85 90 95
 Phe Phe Gly Trp Asp Arg Leu Gly Lys Val Gln His Met Ala Val Thr
 100 105 110
 Trp Leu Val Ala Leu Gly Ser Asn Leu Ser Ala Leu Trp Ile Leu Val
 115 120 125
 Ala Asn Gly Trp Met Gln Asn Pro Ile Ala Ser Asp Phe Asn Phe Glu
 130 135 140

Thr	Met	Arg	Met	Glu	Met	Val	Ser	Phe	Ala	Glu	Leu	Val	Leu	Asn	Pro
145					150					155					160
Val	Ala	Gln	Val	Lys	Phe	Val	His	Thr	Val	Ala	Ser	Gly	Tyr	Val	Cys
				165						170					175
Gly	Ala	Met	Phe	Val	Leu	Gly	Ile	Ser	Ser	Tyr	Tyr	Met	Leu	Arg	Gly
			180					185					190		
Arg	Asp	Phe	Ala	Phe	Ala	Lys	Arg	Ser	Phe	Ala	Ile	Ala	Ala	Ser	Phe
		195					200					205			
Gly	Met	Ala	Ala	Ile	Leu	Ser	Val	Ile	Val	Leu	Gly	Asp	Glu	Ser	Gly
	210					215					220				
Tyr	Glu	Met	Gly	Asp	Val	Gln	Lys	Thr	Lys	Leu	Ala	Ala	Ile	Glu	Ala
225					230					235					240
Glu	Trp	Glu	Thr	Gln	Pro	Ala	Pro	Ala	Ala	Phe	Thr	Leu	Phe	Gly	Val
				245					250						255
Pro	Asp	Gln	Glu	Ala	Gln	Glu	Asn	Arg	Phe	Ala	Ile	Gln	Ile	Pro	Tyr
			260					265					270		
Ala	Leu	Gly	Ile	Ile	Ala	Thr	Arg	Ser	Val	Asp	Lys	Gln	Val	Thr	Gly
		275					280					285			
Leu	Lys	Asp	Leu	Met	Val	Gln	His	Glu	Glu	Arg	Ile	Arg	Asn	Gly	Met
	290					295					300				
Lys	Ala	Tyr	Ser	Leu	Leu	Glu	Gln	Leu	Arg	Ala	Gly	Ser	Thr	Asp	Gln
305					310					315					320
Ala	Val	Arg	Asp	Gln	Phe	Asn	Asp	Val	Lys	Lys	Asp	Leu	Gly	Tyr	Gly
				325					330					335	
Leu	Leu	Leu	Lys	Arg	Tyr	Thr	Pro	Asn	Val	Ser	Asp	Ala	Thr	Glu	Ala
			340					345					350		
Gln	Ile	Gln	Met	Ala	Thr	Lys	Asp	Ser	Ile	Pro	Arg	Val	Ala	Pro	Leu
		355					360					365			
Tyr	Phe	Ala	Phe	Arg	Ile	Met	Val	Gly	Cys	Gly	Ile	Ile	Met	Leu	Leu
	370					375					380				
Ile	Ile	Ala	Ala	Ser	Phe	Trp	Ser	Val	Ile	Arg	Asn	Arg	Ile	Gly	Glu
385					390					395					400
Lys	Lys	Trp	Leu	Leu	Arg	Thr	Ala	Leu	Tyr	Gly	Ile	Pro	Leu	Pro	Trp
			405						410					415	
Ile	Ala	Ile	Glu	Ser	Gly	Trp	Phe	Val	Ala	Glu	Tyr	Gly	Arg	Gln	Pro
			420					425					430		
Trp	Ala	Ile	Gly	Glu	Val	Leu	Pro	Thr	Ala	Val	Ala	Asn	Ser	Ser	Leu
			435				440					445			
Thr	Ala	Gly	Asp	Leu	Ile	Phe	Ser	Met	Leu	Leu	Ile	Cys	Gly	Leu	Tyr
	450					455					460				
Thr	Leu	Phe	Leu	Val	Ala	Glu	Leu	Phe	Leu	Met	Phe	Lys	Phe	Ala	Arg
465					470					475					480
Leu	Gly	Pro	Ser	Ser	Leu	Lys	Thr	Gly	Arg	Tyr	His	Tyr	Glu	Gln	Ser
				485					490					495	
Val	Ala	Thr	Thr	Gln	Pro	Ala	Arg								
			500					505							

<210> 6202

<211> 385

<212> PRT

<213> Enterobacter cloacae

<400> 6202

Asp	Arg	Ser	His	Gln	Met	Ile	Asp	Tyr	Glu	Val	Leu	Arg	Phe	Ile	Trp
1				5					10					15	
Trp	Leu	Leu	Ile	Gly	Val	Leu	Leu	Ile	Gly	Phe	Ala	Val	Thr	Asp	Gly
			20					25					30		
Phe	Asp	Met	Gly	Val	Gly	Met	Leu	Thr	Arg	Phe	Leu	Gly	Arg	Asn	Asp
		35					40					45			
Thr	Glu	Arg	Arg	Ile	Met	Ile	Asn	Ser	Ile	Ala	Pro	His	Trp	Asp	Gly
	50					55					60				

```

Asn Gln Val Trp Leu Ile Thr Ala Gly Gly Ala Leu Phe Ala Ala Trp
65          70          75          80
Pro Met Val Tyr Ala Ala Phe Ser Gly Phe Tyr Val Ala Met Ile
      85          90          95
Leu Val Leu Ala Ser Leu Phe Phe Arg Pro Val Gly Phe Asp Tyr Arg
      100          105          110
Ser Lys Ile Glu Asp Thr Arg Trp Arg Asn Met Trp Asp Trp Gly Ile
      115          120          125
Phe Ile Gly Ser Phe Val Pro Pro Leu Val Ile Gly Val Ala Phe Gly
      130          135          140
Asn Leu Leu Gln Gly Val Pro Phe His Val Asp Glu Tyr Met Arg Leu
145          150          155          160
Phe Tyr Thr Gly Asn Phe Phe Gln Leu Leu Asn Pro Phe Gly Leu Leu
      165          170          175
Ala Gly Val Val Ser Val Ala Met Ile Ile Thr Gln Gly Ala Thr Tyr
      180          185          190
Leu Gln Met Arg Thr Val Gly Glu Leu His Leu Arg Ser Arg Ala Thr
      195          200          205
Ala Gln Val Ala Ala Leu Val Thr Leu Val Cys Phe Ala Leu Ala Gly
      210          215          220
Val Trp Val Val Tyr Gly Ile Asp Gly Tyr Val Val Thr Ser Ala Ile
225          230          235          240
Asn His Thr Ala Pro Ser Asn Pro Leu Thr Lys Glu Val Ala Arg Gln
      245          250          255
Ala Gly Ala Trp Leu Val Asn Phe Asn Asn Thr Pro Ala Leu Trp Ala
      260          265          270
Ile Pro Ala Leu Gly Val Leu Leu Pro Leu Leu Thr Val Leu Thr Ser
      275          280          285
Arg Leu Glu Lys Gly Ala Leu Ala Phe Val Phe Ser Ser Leu Thr Leu
      290          295          300
Ala Cys Ile Ile Leu Thr Ala Gly Ile Ala Met Phe Pro Phe Val Met
305          310          315          320
Pro Ser Ser Thr Met Met Asn Ala Ser Leu Thr Met Trp Asp Ala Thr
      325          330          335
Ser Ser Gln Leu Thr Leu Asn Leu Met Thr Tyr Val Ala Cys Val Phe
      340          345          350
Val Pro Ile Ile Leu Leu Tyr Thr Thr Trp Cys Tyr Trp Lys Met Phe
      355          360          365
Gly Arg Ile Thr Lys Glu His Ile Glu Ser Asn Thr His Ser Met Tyr
      370          375          380

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385

<210> 6203

<211> 101

<212> PRT

<213> Enterobacter cloacae

<400> 6203

```

Arg Lys Ala Leu Met Asn Ile Ile Ala Thr Leu Tyr Ala Val Met Asp
1          5          10          15
Lys Arg Pro Leu Arg Ala Leu Ser Leu Ile Met Ala Leu Leu Leu Ala
      20          25          30
Gly Cys Ile Phe Trp Asp Pro Ser Arg Phe Ala Ala Lys Thr Ser Glu
      35          40          45
Leu Glu Ile Trp His Gly Phe Leu Ile Met Trp Ala Val Cys Ala Gly
      50          55          60
Val Ile His Gly Val Gly Phe Arg Pro Lys Ala Leu His Trp Gln Gly
65          70          75          80
Ile Phe Cys Pro Leu Ile Ala Asp Leu Val Leu Leu Ala Gly Leu Ile
      85          90          95

```

Phe Phe Phe Phe
100

<210> 6204
<211> 232
<212> PRT
<213> Enterobacter cloacae

<400> 6204
Ala Val Thr Asp Met Asn Ile Leu Asp Leu Phe Leu Lys Ala Ser Leu
1 5 10 15
Leu Val Lys Leu Ile Met Leu Ile Leu Ile Gly Phe Ser Ile Ala Ser
20 25 30
Trp Ala Ile Ile Ile Gln Arg Thr Arg Ile Leu Asn Ala Ala Gly Arg
35 40 45
Glu Ala Glu Ala Phe Glu Asp Lys Phe Trp Ser Gly Ile Glu Leu Ser
50 55 60
Arg Leu Tyr Gln Glu Ser Gln Gly Arg Arg Asp Asn Leu Ser Gly Ser
65 70 75 80
Glu Gln Ile Phe Tyr Ser Gly Phe Lys Glu Phe Ala Arg Leu His Arg
85 90 95
Ala Asn Ser His Ala Pro Glu Ala Val Val Glu Gly Ala Ser Arg Ala
100 105 110
Met Arg Ile Ser Met Asn Arg Glu Leu Glu Asn Leu Glu Thr His Ile
115 120 125
Pro Phe Leu Gly Thr Val Gly Ser Ile Ser Pro Tyr Ile Gly Leu Phe
130 135 140
Gly Thr Val Trp Gly Ile Met His Ala Phe Ile Ala Leu Gly Ala Val
145 150 155 160
Lys Gln Ala Thr Leu Gln Met Val Ala Pro Gly Ile Ala Glu Ala Leu
165 170 175
Ile Ala Thr Ala Ile Gly Leu Phe Ala Ala Ile Pro Ala Val Met Ala
180 185 190
Tyr Asn Arg Leu Asn Gln Arg Val Asn Lys Leu Glu Leu Asn Tyr Asp
195 200 205
Asn Phe Met Glu Glu Phe Thr Ala Ile Leu His Arg Gln Ala Phe Thr
210 215 220
Ser Thr Glu Ser Asn Lys Gly
225 230

<210> 6205
<211> 144
<212> PRT
<213> Enterobacter cloacae

<400> 6205
Thr Met Ala Arg Ser Arg Gly Arg Gly Arg Arg Glu Leu Lys Ser Glu
1 5 10 15
Ile Asn Ile Val Pro Leu Leu Asp Val Leu Leu Val Leu Leu Ile
20 25 30
Phe Met Ala Thr Ala Pro Ile Ile Thr Gln Ser Val Glu Val Asp Leu
35 40 45
Pro Asp Ala Thr Glu Ser Gln Ala Val Ser Thr Asn Asp Asp Pro Pro
50 55 60
Val Ile Ile Glu Val Ser Gly Val Gly Gln Tyr Ser Val Val Val Glu
65 70 75 80
Lys Asp Arg Met Asp Gln Leu Pro Pro Glu Gln Val Ile Ala Glu Ala
85 90 95
Gln Arg Arg Leu Glu Ser Asn Pro Lys Thr Val Phe Leu Ile Gly Gly
100 105 110
Ala Lys Asp Val Pro Tyr Asp Glu Ile Ile Lys Ala Leu Asn Leu Leu

	115		120		125									
His	Ser	Ala	Gly	Val	Lys	Ser	Val	Gly	Leu	Met	Thr	Gln	Pro	Ile
	130					135					140			

<210> 6206

<211> 301

<212> PRT

<213> Enterobacter cloacae

<400> 6206

Leu	Thr	Gln	Tyr	His	Val	Ile	Arg	Asp	Pro	Arg	Glu	His	Ile	Leu	Asn
1			5						10					15	
Arg	Leu	Pro	Ser	Ala	Ser	Ala	Leu	Ala	Cys	Thr	Ala	His	Ala	Leu	
		20					25					30			
Asn	Leu	Ile	Glu	Lys	Arg	Thr	Leu	Asp	His	Glu	Glu	Met	Lys	Gln	Leu
	35						40				45				
Asn	Arg	Glu	Val	Ile	Asp	Tyr	Phe	Lys	Glu	His	Val	Asn	Pro	Gly	Phe
	50				55					60					
Leu	Glu	Tyr	Arg	Lys	Ser	Val	Thr	Ala	Gly	Gly	Asp	Tyr	Gly	Ala	Val
65				70					75						80
Glu	Trp	Gln	Ala	Gly	Ser	Leu	Asn	Thr	Leu	Val	Asp	Thr	Gln	Gly	Gln
			85					90					95		
Glu	Phe	Ile	Asp	Cys	Leu	Gly	Gly	Phe	Gly	Ile	Phe	Asn	Val	Gly	His
			100				105					110			
Arg	Asn	Pro	Val	Val	Val	Ser	Ala	Val	Gln	Asn	Gln	Leu	Ala	Lys	Gln
	115						120					125			
Pro	Leu	His	Ser	Gln	Glu	Leu	Leu	Asp	Pro	Leu	Arg	Ala	Met	Leu	Ala
	130					135					140				
Lys	Thr	Leu	Ala	Ala	Leu	Thr	Pro	Gly	Lys	Leu	Lys	Tyr	Ser	Phe	Phe
145				150					155						160
Ser	Asn	Ser	Gly	Thr	Glu	Ser	Val	Glu	Ala	Ala	Ile	Lys	Leu	Ala	Lys
			165					170						175	
Ala	Tyr	Gln	Ser	Pro	Arg	Gly	Lys	Phe	Thr	Phe	Ile	Ala	Thr	Ser	Gly
		180					185					190			
Ala	Phe	His	Gly	Lys	Ser	Leu	Gly	Ala	Leu	Ser	Ala	Thr	Ala	Lys	Ser
	195						200					205			
Thr	Phe	Arg	Lys	Pro	Phe	Met	Pro	Leu	Leu	Pro	Gly	Phe	Arg	His	Val
	210					215					220				
Pro	Phe	Gly	Asp	Ile	Asn	Ala	Met	Arg	Thr	Met	Leu	Gly	Glu	Cys	Arg
225				230						235					240
Lys	Thr	Gly	Asp	Asp	Val	Ala	Ala	Val	Ile	Leu	Glu	Pro	Ile	Gln	Gly
			245					250						255	
Glu	Gly	Gly	Val	Ile	Leu	Pro	Pro	Gln	Gly	Tyr	Leu	Pro	Ala	Val	Arg
			260					265					270		
Gln	Leu	Cys	Asp	Glu	Phe	Gly	Ala	Leu	Leu	Ile	Leu	Asp	Glu	Val	Gln
		275					280					285			
Thr	Arg	Asp	Gly	Ala	His	Arg	Gln	Asp	Val	Arg	Leu				
	290					295					300				

<210> 6207

<211> 192

<212> PRT

<213> Enterobacter cloacae

<400> 6207

Ser	Ser	Thr	Lys	Cys	Lys	Pro	Gly	Met	Gly	Arg	Thr	Gly	Lys	Met	Phe
1			5						10					15	
Ala	Cys	Glu	His	Glu	Asn	Val	Gln	Pro	Asp	Ile	Leu	Cys	Leu	Ala	Lys
		20					25					30			
Ala	Leu	Gly	Gly	Gly	Val	Met	Pro	Ile	Gly	Ala	Thr	Val	Ala	Thr	Glu
	35						40					45			

Glu Val Phe Ser Val Leu Phe Asp Asn Pro Phe Leu His Thr Thr Thr
 50 55 60
 Phe Gly Gly Asn Pro Leu Ala Cys Ala Ala Ala Leu Ala Thr Ile Asn
 65 70 75 80
 Val Leu Leu Glu Gln Asn Leu Pro Ala Gln Ala Glu Gln Lys Gly Asp
 85 90 95
 Met Leu Leu Asp Gly Phe Arg Gln Leu Gly Arg Glu Tyr Pro Asp Leu
 100 105 110
 Val Gln Asp Ala Arg Gly Lys Gly Met Leu Met Ala Ile Glu Phe Val
 115 120 125
 Asp Asn Glu Thr Gly Tyr Ser Phe Ala Ser Glu Met Phe Arg Gln Arg
 130 135 140
 Val Leu Val Ala Gly Thr Leu Asn Asn Ser Lys Thr Ile Arg Ile Glu
 145 150 155 160
 Pro Pro Leu Thr Leu Thr Ile Glu Gln Cys Glu Gln Val Leu Lys Ala
 165 170 175
 Ala Arg Lys Ala Leu Ala Ala Leu Arg Val Ser Val Glu Glu Ala
 180 185 190

<210> 6208

<211> 202

<212> PRT

<213> Enterobacter cloacae

<400> 6208

Pro Met Thr Asp Lys Val Asn Ile Met Thr Asp Ala Gly Ala Asp Val
 1 5 10 15
 Ala Gln Val Ser Leu Ala Val Ala Asn Arg Ile Arg Ser Trp Arg Lys
 20 25 30
 Glu Lys Lys Leu Ser Leu Asp Glu Leu Ser Arg Arg Ala Ser Val Ser
 35 40 45
 Lys Gly Met Leu Val Glu Ile Glu Lys Gly Ala Ala Asn Pro Ser Ile
 50 55 60
 Ala Ile Leu Cys Lys Leu Ala Ala Ala Leu Gly Val Ser Val Ala Asp
 65 70 75 80
 Ile Val Asn Val Ser Ser Glu Pro Gln Ile His Ile Ile Arg Glu Glu
 85 90 95
 Ala Ile Pro Val Leu Trp Gln Gly Ala Gln Gly Gly Tyr Ala Arg Leu
 100 105 110
 Leu Ala Gly Thr Ala Gly Pro Asp Met Ile Glu Leu Trp Gln Trp Glu
 115 120 125
 Met His Pro Gly Glu Thr Phe Thr Ser Pro Gly His Pro Ala Gly Thr
 130 135 140
 Phe Glu Leu Leu His Val Asn Glu Gly Met Leu Thr Leu Thr Val Asp
 145 150 155 160
 Glu Thr Val Thr Gln Val Ala Ala Gly Ala Ser Ala Val Ala Lys Thr
 165 170 175
 Glu Ala Ala His Gly Tyr Ala Asn Glu Ser Asp Thr Val Leu Arg Phe
 180 185 190
 Thr Met Thr Val Ala Glu Phe His Arg
 195 200

<210> 6209

<211> 138

<212> PRT

<213> Enterobacter cloacae

<400> 6209

Ile Leu Asn Ser Ser Glu Gln Thr Val Asn Leu Gly Gln Tyr Arg Thr
 1 5 10 15
 Ala Lys Phe Thr Lys Val Gly Asp Thr Thr Ser Asn Ile Pro Phe Thr

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<210> 6210
<211> 204
<212> PRT
<213> Enterobacter cloacae
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<210> 6211
<211> 862
<212> PRT
<213> Enterobacter cloacae
```

<400> 6211															
Arg	Gln	Pro	Val	Ser	Arg	Asp	Arg	Ala	Met	Asn	Thr	Gln	Trp	Arg	Tyr
1				5					10					15	
Cys	Pro	Val	Ala	Leu	Ala	Leu	Met	Ala	Thr	Leu	Trp	Pro	Leu	Ala	Gly
			20					25					30		
Trp	Gly	Glu	Ser	Tyr	Phe	Asn	Pro	Ala	Phe	Leu	Ser	Asp	Asp	Thr	Ala
		35					40					45			

Asn	Val	Ala	Asp	Leu	Ser	Arg	Phe	Glu	Lys	Gly	His	Gln	Gln	Ala	Pro
50						55					60				
Gly	Val	Tyr	Arg	Val	Asp	Ile	Trp	Arg	Asn	Asp	Glu	Phe	Ile	Gly	Thr
65					70					75					80
Gln	Asp	Val	Arg	Phe	Glu	Gln	Ala	Asp	Asn	Thr	Pro	Pro	Val	Ala	Gly
				85					90					95	
Gly	Leu	Ser	Pro	Cys	Ile	Thr	Arg	Ala	Met	Leu	Asp	Arg	Phe	Gly	Val
			100					105					110		
Asn	Ile	Ala	Ala	Phe	Pro	Glu	Leu	Ser	Asn	Val	Gln	Gly	Asp	Thr	Cys
		115					120					125			
Val	Pro	Leu	Thr	Thr	Ala	Ile	Pro	Gly	Ser	Glu	Ala	Ala	Phe	Asn	Phe
	130					135					140				
Ala	Ser	Leu	Arg	Leu	Asn	Val	Ser	Leu	Pro	Gln	Val	Ala	Met	Gln	Asn
145					150					155					160
Ser	Ala	Arg	Gly	Tyr	Ile	Pro	Pro	Glu	Gln	Trp	Asp	Glu	Gly	Ile	Pro
				165					170					175	
Ala	Ala	Leu	Leu	Asn	Tyr	Ser	Phe	Thr	Gly	Asn	Arg	Gly	Ser	Asp	Asp
			180					185					190		
Asp	Ser	Tyr	Tyr	Leu	Asn	Leu	Gln	Ser	Gly	Leu	Asn	Tyr	Gly	Ala	Trp
		195					200					205			
Arg	Leu	Arg	Asn	Asn	Gly	Ala	Trp	Arg	Tyr	Thr	Glu	Ser	Asn	Gly	Gln
	210				215						220				
Arg	His	Ser	Ser	Trp	Gln	Asn	Ile	Gly	Thr	Trp	Ala	Gln	Arg	Thr	Ile
225					230					235					240
Ile	Pro	Leu	Lys	Ser	Glu	Leu	Val	Leu	Gly	Asp	Ser	Asn	Thr	Gly	Asn
				245					250					255	
Asp	Val	Phe	Asp	Ser	Val	Gly	Phe	Arg	Gly	Gly	Arg	Leu	Tyr	Ser	Ser
			260					265					270		
Asp	Ser	Met	Tyr	Pro	Asp	Ser	Leu	Gln	Gly	Tyr	Ala	Pro	Thr	Val	Arg
		275					280					285			
Gly	Ile	Ala	Arg	Thr	Pro	Ala	Lys	Val	Val	Ile	Arg	Gln	Asn	Gly	Tyr
	290					295				300					
Val	Ile	Tyr	Gln	Ser	Tyr	Val	Gln	Pro	Gly	Ala	Phe	Ala	Ile	Thr	Asp
305					310					315					320
Leu	Asn	Pro	Thr	Ser	Ser	Ser	Gly	Asp	Leu	Glu	Val	Thr	Val	Glu	Glu
				325					330					335	
Lys	Asp	Gly	Ser	Gln	Gln	Arg	Tyr	Thr	Val	Pro	Tyr	Ser	Thr	Val	Pro
			340					345					350		
Leu	Leu	Gln	Arg	Glu	Gly	Arg	Trp	Lys	Tyr	Asp	Leu	Val	Ala	Gly	Asp
		355					360					365			
Tyr	Arg	Ser	Gly	Asn	Ser	Glu	Gln	Asp	Thr	Pro	Phe	Phe	Thr	Gln	Gly
	370					375					380				
Thr	Met	Ile	Ala	Gly	Leu	Ala	Asp	Gly	Tyr	Thr	Leu	Tyr	Gly	Gly	Thr
385					390					395					400
Gln	Leu	Ala	Ser	Arg	Tyr	Thr	Ala	Ile	Ala	Ile	Gly	Ala	Gly	Lys	Asn
				405					410					415	
Leu	Gly	Asp	Trp	Gly	Ala	Val	Ser	Leu	Asp	Leu	Thr	His	Ala	Arg	Ser
			420					425					430		
Gln	Leu	Ala	Asp	Asp	Ser	Arg	His	Glu	Gly	Gln	Ser	Leu	Arg	Phe	Leu
		435					440					445			
Tyr	Ala	Lys	Ser	Leu	Asn	Gly	Phe	Gly	Thr	Asn	Phe	Gln	Leu	Leu	Gly
	450					455					460				
Tyr	Arg	Tyr	Ser	Thr	Lys	Gly	Phe	Tyr	Thr	Leu	Asp	Asp	Val	Ala	Trp
465					470					475					480
Arg	Thr	Met	Glu	Gly	Tyr	Gln	Tyr	Gly	Asp	Asp	Gln	Asp	Asp	Asp	Gly
				485					490					495	
Val	Pro	Asp	Val	Gln	Ser	Tyr	His	Asn	Leu	Thr	Leu	Asn	Lys	Lys	Gly
			500					505					510		
Arg	Phe	Gln	Leu	Asn	Ile	Ser	Gln	Ser	Leu	Gly	Asp	Tyr	Gly	Ser	Val
		515					520					525			
Tyr	Val	Ser	Gly	Ser	Gln	Gln	Asn	Tyr	Trp	Gly	Thr	Ser	Glu	Ser	Asn

530	535	540
Val Trp Tyr Gln Leu Gly Tyr Ala Gly Gly Val Lys Gly Val Ser Tyr		
545	550	555
Ala Leu Ser Trp Ser Trp Asn Lys Ala Val Gly Ile Asp Gly Thr Asp		
	565	570
Arg Ile Ala Ser Phe Asn Val Ser Val Pro Phe Ser Leu Phe Thr Arg		
	580	585
His Gly Tyr Arg Arg Asp Asn Ala Ile Asp Arg Ala Tyr Ala Thr Ala		
	595	600
Ser Ala Ser Arg Asn Ser Asp Gly Asp Thr Ser Trp Gln Thr Gly Ile		
	610	615
Ser Gly Thr Leu Leu Lys Asp Arg Asn Leu Asn Tyr Ser Val Thr Gln		
625	630	635
Gly His Thr Ser Asn Asn Gly Ala Ser Gly Ser Ala Ser Ala Asn Trp		
	645	650
Gln Ala Thr Tyr Gly Thr Leu Gly Val Gly Tyr Asn Tyr Thr Arg Asp		
	660	665
Gln His Asp Leu Asn Trp Gln Leu Ser Gly Gly Val Val Gly His Ser		
	675	680
Asp Gly Ile Thr Phe Ser Gln Pro Leu Gly Asp Thr Asn Val Leu Ile		
	690	695
Lys Ala Pro Gly Ala Ser Gly Val Ser Val Glu Asn Gln Thr Gly Val		
705	710	715
Lys Thr Asp Trp Arg Gly Tyr Ala Val Met Pro Tyr Ala Thr Val Tyr		
	725	730
Arg Tyr Asn Arg Val Ala Leu Asp Thr Asn Thr Met Ser Asn Asn Thr		
	740	745
Asp Ile Glu Asn Asn Val Ser Ser Val Val Pro Thr Asn Gly Ala Leu		
	755	760
Val Arg Ala Ser Phe Asp Thr Arg Ile Gly Val Arg Ala Leu Leu Thr		
	770	775
Val Lys Arg Asp Asn Gln Pro Val Pro Phe Gly Ala Val Val Arg Glu		
785	790	795
Thr Gln Ser Gly Val Thr Ser Met Val Gly Asp Asp Gly Gln Ile Tyr		
	805	810
Leu Ser Gly Leu Pro Leu Ser Gly Glu Leu Leu Ile Gln Trp Gly Asp		
	820	825
Gly Lys Gln Ser Gln Cys Arg Ala Pro Tyr Ser Leu Pro Glu Gln Ser		
	835	840
Leu Gln Gln Ala Ile Thr Leu Lys Gly Ile Arg Cys Glu		
850	855	860

<210> 6212

<211> 246

<212> PRT

<213> Enterobacter cloacae

<400> 6212

Phe Ile Pro Asp Ala Cys Glu Leu Ile Ile Lys Gly Thr Val Val Met	
1	5
Asn Thr Leu Ile Lys Pro Gly Leu Phe Leu Ser Phe Ile Leu Met Met	
	20
Val Ser Ala Ser Thr Asn Ala Ser Gly Gly Ile Ala Leu Gly Ala Thr	
	35
Arg Val Ile Tyr Pro Ala Asp Ala Lys Gln Thr Ser Leu Ala Ile Thr	
	50
Asn Ser Asn Lys Gln Glu Arg Tyr Leu Ile Asn Ala Trp Ile Glu Asn	
65	70
Ala Asn Gly Gln Lys Glu Lys Thr Phe Ala Val Thr Pro Pro Leu Phe	
	85
Val Ser Glu Pro Ala Ser Glu Asn Thr Leu Arg Ile Ile Tyr Ala Gly	
	90
	95

100				105				110							
Pro	Ala	Leu	Pro	Ala	Asp	Arg	Glu	Ser	Leu	Phe	Tyr	Met	Asn	Val	Lys
115				120				125							
Ala	Ile	Pro	Ser	Val	Ser	Lys	Lys	His	Gln	Asp	Gly	Asn	Asn	Val	Leu
130				135				140							
Gln	Leu	Ala	Ile	Leu	Ser	Arg	Ile	Lys	Leu	Phe	Val	Arg	Pro	Ala	Asn
145				150				155				160			
Leu	Ala	Met	Pro	Pro	Glu	Glu	Ala	Leu	Ser	Gln	Leu	Arg	Phe	Glu	Arg
				165				170				175			
Val	Gly	Asn	His	Leu	Lys	Val	Ser	Asn	Ala	Ser	Pro	Tyr	Tyr	Val	Thr
				180				185				190			
Leu	Val	Asn	Leu	Lys	Leu	Gly	Gly	Gln	Thr	Leu	Asp	Asn	Leu	Met	Val
195				200				205							
Ala	Pro	Lys	Ser	Ser	Ala	Gln	Gln	Val	Leu	Pro	Ala	Ala	Thr	Ser	Gly
210				215				220							
Thr	Leu	Ser	Trp	Gln	Ser	Val	Asn	Asp	Tyr	Gly	Ala	Ile	Thr	Pro	Ala
225				230				235				240			
Arg	Ser	Val	Ser	Leu											
				245											

<210> 6213

<211> 368

<212> PRT

<213> Enterobacter cloacae

<400> 6213

Phe	Ser	Gly	Glu	Thr	Gly	Ser	Ser	Pro	Ser	Val	Val	Arg	Pro	Thr	Ala
1	5				10				15						
Cys	Gln	Asn	Arg	Ala	Cys	Asn	Arg	Arg	Ser	His	Leu	Arg	Gly	Ser	Ala
20				25				30							
Val	Asn	Lys	Ile	His	Tyr	Leu	Gly	Leu	Ser	Leu	Leu	Ala	Phe	Leu	Pro
35				40				45							
Leu	Ser	Gln	Ala	Phe	Ala	Thr	Val	Cys	Val	Asn	Glu	Asn	Gly	Val	Pro
50				55				60							
Thr	Glu	Val	Tyr	Tyr	Asp	Leu	Thr	Asp	Lys	Phe	Asn	Ser	Ser	Asn	Asn
65				70				75				80			
Gln	Val	Gly	Gln	Ile	Val	Thr	Leu	Ser	Glu	Lys	Ser	Gln	Trp	Val	Gly
				85				90				95			
Val	Asn	Ala	Val	Cys	Pro	Lys	Gly	Thr	Ser	Gly	Asn	Thr	Thr	Lys	Arg
100				105				110							
Ser	Tyr	Val	Thr	Asp	Tyr	Pro	Val	Thr	Gly	Thr	Ser	Asp	Gly	Tyr	Gln
115				120				125							
Tyr	Leu	Lys	Leu	Asn	Asp	Tyr	Leu	Asp	Gly	Ala	Met	Lys	Ile	Thr	Asp
130				135				140							
Ser	Tyr	Ala	Gly	Thr	Phe	Tyr	Pro	Pro	Arg	Lys	Tyr	Ile	Gln	Met	Gly
145				150				155				160			
Ser	His	Pro	Asn	Val	Ser	Lys	Asn	Lys	Pro	Phe	Gly	Val	Gln	Asp	Ser
				165				170				175			
Ser	Leu	Val	Phe	Arg	Leu	Lys	Val	Thr	Arg	Arg	Phe	Ile	Asn	Met	Val
180				185				190							
Val	Ile	Pro	Arg	Ala	Thr	Met	Phe	Arg	Val	Tyr	Val	Thr	Thr	Thr	Ser
195				200				205							
Ser	Asp	Pro	Leu	Thr	Thr	Pro	Val	Tyr	Thr	Ile	Ser	Tyr	Ser	Gly	Thr
210				215				220							
Ile	Gln	Val	Pro	Gln	Ser	Cys	Glu	Ile	Asn	Ala	Gly	Asn	Val	Val	Glu
225				230				235				240			
Phe	Asp	Phe	Gly	Asp	Ile	Gly	Ala	Ser	Leu	Phe	Ser	Lys	Ala	Gly	Ile
				245				250				255			
Gly	Asn	Lys	Pro	Glu	Gly	Ile	Ser	Ala	Gln	Ser	Lys	Thr	Ile	Gly	Ile
260				265				270							
Lys	Cys	Thr	Asn	Val	Glu	Ala	Asn	Ala	Met	Leu	Thr	Met	Arg	Val	Glu

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<210> 6214
<211> 80
<212> PRT
<213> Enterobacter cloacae
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```
<210> 6215
<211> 166
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 6216
<211> 167
<212> PRT
```

<213> Enterobacter cloacae

<400> 6216

```

Arg Tyr Leu Arg Ile Phe Pro Arg Leu Ile Pro Leu Phe Ser Asp Leu
1      5      10      15
Asn Gln Leu Leu Ser Ser Arg Leu Val Val Asn Ile Glu Thr Arg Ala
20      25      30
Ser Pro Ile Ile Asp Leu Leu Asp Arg Leu Arg Arg His Ser Leu Leu
35      40      45
Ala Pro Tyr Leu Thr Pro Tyr Met Phe Phe Arg Ala Asp Asp Tyr Asp
50      55      60
Ala Arg Leu Phe Cys Lys Ala Ala Gly Pro Phe His Val Leu Ala Arg
65      70      75      80
Gln Leu Thr Ala Leu Asp Met Gln Gln Thr Leu Met Glu Ala Pro Ala
85      90      95
Pro Ala Gly Asn Arg Lys Glu Trp Phe Ser Arg Asp Glu Trp Pro Ile
100     105     110
Leu Gln Ala Leu Ser Gln Gly Ser Ser Leu Arg Gln Ile Ala Gln Leu
115     120     125
Gln Asn Arg Pro Tyr Ser Cys Ile Ile Tyr Ser Leu Ser Cys Ile Leu
130     135     140
Ala Lys Leu Gly Leu Asn Tyr Arg His Glu Leu Leu His Leu Leu Asn
145     150     155     160
Asn Leu Ser Asp Phe Thr Tyr
165

```

<210> 6217

<211> 92

<212> PRT

<213> Enterobacter cloacae

<400> 6217

```

Gln Arg Arg Ser Leu Leu Thr Lys Tyr Arg Gln Ser Pro Leu Ser Asn
1      5      10      15
Val Thr Asp Gly Ile Phe Ser Leu Met Ala Ala Lys Ile Ile Asp Gly
20      25      30
Lys Thr Ile Ala Gln Gln Val Arg Ser Glu Val Ala Glu Lys Val Lys
35      40      45
Ala Arg Lys Ala Ala Gly Phe Arg Ala Pro Gly Leu Ala Val Val Leu
50      55      60
Val Gly Ser Asn Pro Ala Ser Gln Ile Tyr Val Gly Ser Lys Arg Lys
65      70      75      80
Ala Cys Glu Glu Val Gly Phe Val Ser Arg Ser
85      90

```

<210> 6218

<211> 212

<212> PRT

<213> Enterobacter cloacae

<400> 6218

```

Lys Met Lys Pro Ala Ser Val Ile Ile Met Asp Glu His Pro Ile Val
1      5      10      15
Arg Met Ser Ile Glu Val Leu Leu Gln Lys Asn Lys Asn Ile Gln Val
20      25      30
Lys Leu Lys Ser Gly Asp Ser His Glu Val Leu Asp Cys Ile Arg Asn
35      40      45
His Pro Ile Asp Leu Val Ile Leu Asp Ile Glu Met Thr Asp Thr Asp
50      55      60
Gly Phe Val Leu Leu Lys Arg Ile Arg Asn Leu Asn Lys Asp Ile Lys
65      70      75      80

```

Val Leu Phe Leu Ser Ser Lys Ser Glu Ala Leu Tyr Ala Gly Arg Ala
 85 90 95
 Ile Arg Ala Gly Asp Asn Gly Phe Val Ser Lys Arg Lys Asp Leu Gly
 100 105 110
 Glu Ile Tyr Asn Ala Val Glu Met Ile Leu Thr Gly Tyr Ser Phe Phe
 115 120 125
 Pro Ser Glu Thr Leu Ser Phe Ile Asn His Leu Gly Ser Arg Thr Gly
 130 135 140
 Ala Ala Val Asp Met Pro Leu Ser Asn Arg Glu Val Thr Val Leu Arg
 145 150 155 160
 Tyr Leu Ala Asn Gly Leu Ser Asn Lys Glu Ile Ala Asp Gln Leu Leu
 165 170 175
 Leu Ser Asn Lys Thr Ile Ser Ala His Lys Ser Asn Ile Phe Ser Lys
 180 185 190
 Leu Gly Val Gln Ser Ile Val Glu Leu Ile Asp Tyr Ala Lys Ala His
 195 200 205
 Glu Leu Leu
 210

<210> 6219

<211> 251

<212> PRT

<213> Enterobacter cloacae

<400> 6219

His Ser Met Asn Leu Gln Thr Tyr Glu Ser Thr Ser Ala Ile Thr Met
 1 5 10 15
 Ser Ala Ile Ser Asn Ala Ile Leu Asn Gly Leu Ser Pro Leu Arg Val
 20 25 30
 Thr Ile Pro Met Thr Gly Val Glu Trp Ala Asp Lys Tyr Phe Tyr Leu
 35 40 45
 Pro Glu Gly Ser Ser His Ile Ala Gly Arg Trp Lys Thr Gln Pro Val
 50 55 60
 Gln Leu Ala Met Leu Asn Met Met Thr Asn Asp Ala Ile Lys Ile Val
 65 70 75 80
 Ser Ile Arg Lys Ser Ala Arg Leu Gly Tyr Thr Lys Val Met Val Val
 85 90 95
 Ala Leu Leu Tyr Phe Ala Glu His Lys Lys Arg Ser Ser Val Ala Tyr
 100 105 110
 Gln Pro Val Asp Asp Glu Ala Glu Gly Phe Val Ser Asp Glu Ile Asp
 115 120 125
 Pro Ala Ile Cys Glu Met Pro Val Ile Gln Lys Ile Phe Pro Asp Trp
 130 135 140
 Asp Ser Ser Asn Glu Arg Asn Asn Ile Lys Arg Lys Glu Met Ser Gly
 145 150 155 160
 Ala Ile Leu Asp Phe Arg Gly Ala Asn Ser Pro Gly Asn Phe Arg Arg
 165 170 175
 Leu Thr Lys Gln Val Val Ala Gly Asp Glu Val Asp Gly Trp Pro Leu
 180 185 190
 Glu Val Ser Lys Lys Gly Lys Gly Glu Gly Ser Pro Ile Glu Leu Ala
 195 200 205
 Leu Val Arg Ile Lys Gly Ala Ser Tyr Pro Lys Ala Ile Phe Gly Ser
 210 215 220
 Thr Pro Thr Val Thr Gly Lys Ser Gln Ile Glu Met Leu Glu Asp Gly
 225 230 235 240
 Ala Asp Leu Val Phe Arg Phe Tyr Leu Pro
 245 250

<210> 6220

<211> 111

<212> PRT

<213> Enterobacter cloacae

<400> 6220

```

Gly Ala Val Met Thr Thr Glu Ser Cys Gln Pro Asp Asp Phe Phe Val
1      5      10      15
Gly Pro Asp Val Thr Thr Thr Thr Gly Ile Met Ala Ser Gly Val Asn
20      25      30
Ile Ala Lys Tyr Thr Pro Val Met Ile Asp Ala Thr Ala Gly Thr Phe
35      40      45
Lys Ser Trp Asp Gly Thr Pro Gly Lys Ala Val Gly Ile Thr Ala Met
50      55      60
Ala Val Asn Ala Ser Ala Gly Gln Val Glu Phe Ser Tyr Tyr Asn Gly
65      70      75      80
Gly Thr Phe Arg Ala Ser Tyr Leu Asn Trp Ser Ala Asp Ala Val Lys
85      90      95
Arg Lys Ser Ala Phe Ala Gly Thr Pro Val Ser Ile Gln Glu
100      105      110

```

<210> 6221

<211> 180

<212> PRT

<213> Enterobacter cloacae

<400> 6221

```

Leu Asn Arg Ser Ser Pro Val Met Lys Ser Thr Ala Gly Arg Leu Lys
1      5      10      15
Ser Arg Arg Lys Ala Arg Ala Lys Gly Arg Arg Leu Asn Trp Leu Trp
20      25      30
Tyr Val Leu Arg Ala Arg His Thr Arg Lys Pro Phe Ser Ala Leu Leu
35      40      45
Arg Pro Leu Pro Ala Lys Ala Arg Leu Lys Cys Ser Arg Met Ala Pro
50      55      60
Ile Trp Ser Ser Gly Phe Ile Cys Leu Ser Ala Gln Ala Ala Ser Asn
65      70      75      80
Glu Leu Ala Arg Val Met Ser Ile Ile Gly Cys Glu Glu Ala Lys Gly
85      90      95
Arg Glu Gln Gln Ala His Ala Leu Ala Ala Ile Pro Gly Met Thr Leu
100      105      110
Asp Gln Ala Lys Ala Val Leu Ala Ala Pro Gln Thr Ala Gln Ala
115      120      125
Arg Thr Glu Thr Ala Leu Asp Ala Leu Met Thr Lys Glu Ser Pro Glu
130      135      140
Ala Val Ala Tyr Met Pro Ala Gln His Asn His Ser Ala Asp Gly Ser
145      150      155      160
Ala Ala Lys Ile Ser Leu Leu Val Gln Ala Gly Lys Ser Leu Ile Glu
165      170      175
Glu Gln Leu
180

```

<210> 6222

<211> 345

<212> PRT

<213> Enterobacter cloacae

<400> 6222

```

Met Ser Asp Ser Tyr Thr Thr Gln Glu Leu Ile Ala Ala Thr Gln Gln
1      5      10      15
Val Phe Lys Phe Gln Pro Leu Phe Leu Ser Leu Phe Phe Lys Glu Thr
20      25      30
Tyr Thr Phe Asp Thr Glu Asp Val Phe Leu Asp Lys Ile Pro Gly Glu
35      40      45

```

Val	Ser	Met	Ala	Val	Tyr	Cys	Ser	Pro	Leu	Ile	Thr	Gly	Lys	Val	Asp
50					55					60					
Arg	Thr	Arg	Gly	Phe	Lys	Thr	Thr	His	Phe	Lys	Pro	Gly	Tyr	Thr	Lys
65				70					75						80
Pro	Lys	His	Thr	Val	Asn	Pro	His	Thr	Val	Ile	Lys	Arg	Ser	Ala	Gly
			85						90					95	
Glu	His	Ile	Gly	Gln	Pro	Lys	Thr	Pro	Ala	Glu	Arg	Arg	Ala	Glu	Ile
			100					105					110		
Ile	Met	Gln	Asn	Leu	Lys	Asp	Glu	Glu	Leu	Ser	Ile	Gln	Gln	Leu	Glu
		115					120					125			
Glu	Tyr	Gln	Ala	Val	Gln	Ala	Val	Leu	Lys	Gly	Lys	Tyr	Thr	Ile	Ser
	130				135						140				
Gly	Pro	Asn	Ile	Asp	Thr	Glu	Ile	Asp	Met	Gln	Arg	Ser	Val	Ala	
145				150					155						160
Asn	Asn	Ile	Val	Gln	Ser	Gly	Ser	Thr	Ala	Trp	Ser	Ala	Gln	Asn	Lys
			165						170					175	
Asp	Thr	Phe	Asp	Pro	Ser	Asn	Asp	Ile	Glu	Glu	Tyr	Ala	Glu	His	Ala
		180						185					190		
Ser	Gly	Thr	Ile	Asn	Val	Met	Val	Leu	Asp	Gly	Lys	Ala	Trp	Lys	Thr
		195				200						205			
Leu	Lys	Ser	Phe	Lys	Leu	Phe	Arg	Glu	Ala	Leu	Asp	Thr	Arg	Arg	Gly
	210					215					220				
Ser	Asn	Ser	Lys	Leu	Glu	Leu	Ala	Leu	Lys	Asn	Leu	Gly	Asp	Val	Val
225				230						235					240
Ser	Phe	Lys	Gly	Tyr	Tyr	Gly	Asp	Thr	Ala	Val	Ile	Val	Tyr	Lys	Gly
			245						250					255	
Gln	Tyr	Ile	Asp	Pro	Asp	Thr	Lys	Ala	Lys	Thr	Lys	Tyr	Met	Pro	Asp
			260					265					270		
Asn	Thr	Ile	Ala	Leu	Gly	Asn	Leu	Gln	Ser	Lys	Gly	Tyr	Arg	Thr	Tyr
		275				280						285			
Gly	Ala	Val	Gln	Asp	Glu	Asp	Ala	Leu	Arg	Glu	Gly	Ile	Thr	Glu	Ala
	290					295					300				
Thr	Arg	Tyr	Pro	Lys	Ile	Trp	Thr	Thr	Thr	Gly	Asp	Pro	Ser	Ile	Thr
305				310						315					320
Gln	Thr	Met	Thr	Gln	Ser	Ala	Pro	Ala	Met	Val	Leu	Ala	Asp	Ala	Asp
			325						330					335	
Ala	Phe	Val	Ile	Val	Thr	Leu	Ala								
			340					345							

<210> 6223

<211> 148

<212> PRT

<213> Enterobacter cloacae

<400> 6223

Glu	Pro	Lys	Gly	Ser	Phe	Leu	Tyr	Pro	Glu	Thr	Lys	Met	Ala	Asn	Lys
1				5					10					15	
Thr	Glu	Leu	Leu	Ala	Arg	Ile	Ser	Asp	Leu	Ser	Ala	Gln	Leu	Gly	Arg
			20					25					30		
Glu	Leu	Ser	Thr	Thr	Gly	Thr	Asn	Glu	Ala	Leu	Gln	Ala	Val	Ile	Asp
		35					40					45			
Ser	Ala	Glu	Ala	Glu	Leu	Lys	Leu	Leu	Asn	Glu	Asp	Asp	Gly	Glu	Thr
	50					55					60				
Leu	Pro	Leu	Gln	Pro	Leu	Pro	Gly	Gly	Ser	Asn	Ser	Gly	Thr	Leu	Leu
65				70						75					80
Thr	Ala	Ser	Ser	Pro	Asp	Glu	Asn	Asp	Glu	Ala	Asp	Ala	Asp	Gly	Ala
			85						90					95	
Ala	Tyr	Arg	Leu	Val	Lys	Leu	Arg	Ala	Thr	Leu	His	Val	Val	His	Tyr
			100					105					110		
Val	Asn	Gln	Lys	Pro	Val	Arg	Glu	Ile	Val	Pro	Ala	Gly	Gln	Ser	Ile
		115					120					125			

Tyr Val Asp Pro Glu Glu Ala Ala Leu Leu Ile Ala Ala Asn His Val
 130 135 140
 Tyr Ala Leu
 145

<210> 6224

<211> 330

<212> PRT

<213> Enterobacter cloacae

<400> 6224

Phe Leu Ile Val Ala Phe Glu Ala Ser Arg Ile Ala Asn Glu Val Ser
 1 5 10 15
 Met Ile Lys Gln Lys Thr Ile Lys Asn Ile Val Glu Leu Ser Gly Ile
 20 25 30
 Gly Leu His Ser Gly Ser Ser Ile His Met Lys Ile Met Pro Ala Thr
 35 40 45
 Ala Asn Ser Gly Ile Arg Phe Arg Arg Thr Asp Leu Asn Pro Ser Val
 50 55 60
 Asp Ile Gln Leu Arg Ala Glu Gln Val His Asp Thr Met Leu Ala Thr
 65 70 75 80
 Ser Leu Ile Asn Pro Gln Gly Ile Arg Val Ser Thr Ile Glu His Phe
 85 90 95
 Leu Ser Ala Val Ser Ser Leu Gly Ile Asp Asn Leu Leu Val Glu Leu
 100 105 110
 Asp Ala Pro Glu Leu Pro Ile Leu Asp Gly Ser Ala Arg Glu Phe Ile
 115 120 125
 Asp Ser Leu Ile Asn Ala Gly Ser Ile Glu Gln Cys Ala Leu Lys Lys
 130 135 140
 Tyr Leu Leu Ile Lys Lys Thr Val Ser Val Lys Asp Gly Asp Lys Trp
 145 150 155 160
 Ala Leu Leu His Pro Asp Ser Lys Phe Ser Val Asp Phe Thr Ile Asp
 165 170 175
 Phe Lys His Pro Leu Ile Ser Ala Asp Thr Asn Lys Leu Asn Ile Glu
 180 185 190
 Met Ser Lys Glu Lys Tyr Ile Glu Glu Ile Ala Gly Ala Arg Thr Phe
 195 200 205
 Gly Phe Val His Asp Val Glu Lys Leu Gln Lys Ile Gly Leu Val Leu
 210 215 220
 Gly Ala Gly Leu Asn Asn Ala Ile Gly Leu Asp Glu Tyr Ser Val Leu
 225 230 235 240
 Asn Pro Glu Gly Leu Arg Phe Asn Asn Glu Leu Val Arg His Lys Val
 245 250 255
 Leu Asp Ala Ile Gly Asp Leu Phe Val Ser Gly Tyr Asn Ile Ile Gly
 260 265 270
 Ala Tyr His Ala Tyr Lys Ser Gly His Ala Leu Asn Asn Lys Leu Met
 275 280 285
 Leu Ala Leu Leu Asn Asp Thr Asp Ala Trp Glu Phe Val Asn Leu His
 290 295 300
 Asp Tyr Ser Arg Gly Lys Leu Lys Val Asn Met Leu Pro Ala Ile Asn
 305 310 315 320
 Lys Glu Cys Pro Val Ser Leu Thr Ile
 325 330

<210> 6225

<211> 151

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222>(6)

<400> 6225

Tyr His Arg Ile Ala Xaa Gly Glu Arg Met Ser Thr Ile Gly Asp Ala
 1 5 10 15
 Ala Arg Leu Ser Gly Val Ser Ala Lys Met Ile Arg Tyr Tyr Glu Glu
 20 25 30
 Ala Gly Leu Ile Pro Ser Val Ser Arg Thr Ala Ala Gly Tyr Arg Ile
 35 40 45
 Tyr Lys Asp Val Asp Val Tyr Lys Leu His Phe Ile Arg Arg Cys Arg
 50 55 60
 Glu Leu Gly Phe Ser Leu Ser Gln Thr Gly Asp Leu Leu Ser Leu Trp
 65 70 75 80
 Gly Asn His Ser Arg Gln Ser Ala Asp Val Lys Lys Leu Val Glu Ser
 85 90 95
 His Ile Asn Asp Leu Thr Ser Lys Ile Glu Glu Leu Gln Arg Ile Ala
 100 105 110
 Ser Thr Leu Thr Thr Leu Ser Asp Cys Cys Ala Gly Asp Asp Lys Pro
 115 120 125
 Asp Cys Pro Ile Leu Arg Ala Leu Tyr Leu Ala Glu Thr Ser Arg Lys
 130 135 140
 Asp Lys Glu Asn Ser Pro
 145 150

<210> 6226

<211> 311

<212> PRT

<213> Enterobacter cloacae

<400> 6226

Leu Met Lys Phe Pro His Phe Phe Ile Gln Arg Pro Ile Phe Ala Ile
 1 5 10 15
 Val Leu Ser Leu Phe Met Leu Ile Ala Gly Ala Leu Ala Phe Phe Gln
 20 25 30
 Leu Pro Leu Ser Glu Tyr Pro Ser Val Thr Pro Pro Thr Val Gln Val
 35 40 45
 Thr Ala Ser Tyr Pro Gly Ala Asn Pro Asn Val Ile Ala Asp Thr Val
 50 55 60
 Ala Ala Pro Leu Glu Gln Ala Ile Asn Gly Val Glu Gly Met Leu Tyr
 65 70 75 80
 Met Ser Ser Gln Thr Ser Ser Asp Gly Arg Met Val Leu Thr Ile Ser
 85 90 95
 Phe Arg Gln Gly Thr Asp Pro Asp Ile Ala Gln Ile Gln Val Gln Asn
 100 105 110
 Arg Val Ser Arg Ala Leu Pro Arg Leu Pro Ser Glu Val Gln Gln Ile
 115 120 125
 Gly Val Val Thr Glu Lys Thr Ser Pro Asp Ile Leu Met Val Val His
 130 135 140
 Leu Phe Ser Pro Asp Asn Arg Tyr Asn Pro Leu Tyr Val Ser Asn Tyr
 145 150 155 160
 Ala Met Leu Asn Val Arg Asp Glu Leu Ser Arg Leu Pro Gly Ile Ala
 165 170 175
 Ser Ile Ala Leu Trp Gly Glu Gly Glu Tyr Ala Met Arg Val Trp Leu
 180 185 190
 Asp Pro Asn Lys Ile Ala Ser Arg Gly Leu Thr Ala Ser Asp Val Thr
 195 200 205
 Ser Ala Ile Lys Glu Gln Asn Val Gln Val Ala Ala Gly Ser Val Gly
 210 215 220
 Gln Gln Pro Asn Thr Ser Ser Phe Gln Val Thr Val Asn Ala Leu
 225 230 235 240
 Gly Arg Leu Thr Thr Glu Glu Gln Phe Gly Asp Ile Ile Ile Lys Ser

				245					250				255				
Gly	Thr	Asp	Gly	Gln	Val	Thr	Arg	Leu	Arg	Asp	Val	Ala	Arg	Ile	Glu		
			260					265					270				
Leu	Gly	Ser	Asp	Asn	Tyr	Ser	Leu	Arg	Ser	Leu	Leu	Asp	Asn	Lys	Asp		
		275					280					285					
Ala	Val	Gly	Met	Gln	Ile	Val	Met	Thr	Pro	Gly	Ala	Asn	Ala	Leu	Asp		
	290					295					300						
Val	Ser	Ala	Ser	Val	Arg	Ser											
305					310												

<210> 6227

<211> 1213

<212> PRT

<213> Enterobacter cloacae

<400> 6227

Gly	His	Cys	Ile	Trp	Arg	Arg	Leu	Arg	Val	Arg	Thr	Arg	Lys	Ile	Val		
1			5					10					15				
Leu	Asp	Val	Ile	Ile	Ala	Thr	Tyr	Leu	Glu	Ser	Leu	Gln	Pro	Gly	Phe		
		20						25				30					
Ile	Val	Arg	Asn	Leu	Tyr	Ala	Val	Asn	Phe	Asn	Gly	Asn	His	Cys	Leu		
	35						40					45					
His	Lys	Glu	Gln	Leu	Gln	Leu	Ser	Lys	Asp	His	Phe	Leu	Leu	Val	Arg		
	50				55					60							
Phe	Thr	Met	Leu	Asn	Ile	Ile	Pro	Gly	Tyr	Cys	Thr	Leu	Cys	Arg	Ser		
65				70					75					80			
Arg	Cys	Gly	Thr	Leu	Asn	Glu	Val	Ile	Glu	Asp	Leu	Leu	Phe	Leu	Val		
			85					90					95				
Arg	Pro	Asn	Pro	Val	Leu	Pro	Phe	Gly	Lys	Ala	Met	Cys	Met	Lys	Gly		
		100						105					110				
Lys	Ala	Ala	Pro	Glu	Leu	Val	Asp	Ser	Ala	Asn	Arg	Ile	Leu	His	Pro		
	115						120					125					
Met	Lys	Arg	Thr	His	Pro	Lys	Gly	Ala	Glu	Asn	Pro	Gly	Trp	Gln	Arg		
	130					135					140						
Ile	Ser	Trp	Glu	Glu	Ala	Met	Ser	Thr	Ile	Ala	Gly	Gln	Leu	Lys	Lys		
145				150					155					160			
Phe	Lys	Asn	Glu	Asn	Gly	Ala	Glu	Ser	Val	Ala	Phe	Gly	Phe	Thr	Ser		
		165						170					175				
Pro	Ser	Gly	Thr	Pro	Leu	Ser	Asp	Ala	Ile	Glu	Trp	Leu	Glu	Arg	Phe		
		180						185					190				
Val	Arg	Ile	Tyr	Gly	Ser	Pro	Asn	Thr	Ser	Tyr	Gly	Thr	Glu	Ile	Cys		
	195						200					205					
Asn	Trp	His	Lys	Asp	Val	Ala	His	Arg	Trp	Thr	Phe	Gly	Cys	Gly	Ile		
	210				215					220							
Pro	Val	Ala	Asp	Tyr	Ser	His	Ala	Glu	Leu	Ile	Ile	Leu	Trp	Gly	His		
225				230					235					240			
Asn	Pro	Ala	Asn	Thr	Trp	Leu	Ala	Gln	Ala	Asn	Ala	Ile	Gly	Thr	Gly		
			245					250					255				
Arg	Asn	Asn	Gly	Ala	Lys	Leu	Ile	Val	Ile	Asp	Pro	Arg	Pro	Thr	Pro		
		260						265					270				
Leu	Ala	Lys	Glu	Ala	Asn	Ala	Trp	Leu	Asn	Val	Cys	Pro	Gly	Thr	Asp		
	275						280				285						
Gly	Ala	Leu	Ala	Leu	Gly	Leu	Ser	His	Leu	Leu	Val	Glu	Arg	His	Met		
	290				295						300						
Phe	Asn	Gln	Glu	Phe	Val	Arg	Asp	Trp	Thr	Asn	Gly	Pro	Leu	Leu	Ile		
305				310					315					320			
Arg	Asn	Asp	Asn	Gly	Tyr	Phe	Leu	Arg	Glu	Ile	Asp	Ile	Asn	Pro	Phe		
			325					330					335				
Ala	Thr	Ser	Asn	Arg	Tyr	Val	Val	Trp	Asp	Glu	His	Ile	Gln	Gln	Val		
		340						345				350					
Ile	Phe	Ile	Asp	Ser	Glu	Thr	Arg	Thr	Glu	Glu	Thr	Leu	Thr	Pro	Thr		

		355				360				365					
Ala	Ala	Leu	Glu	Ser	Asp	Val	Glu	Val	Thr	Leu	Ala	Asp	Gly	Gly	Lys
	370					375				380					
Ile	Ser	Cys	His	Thr	Ala	Phe	Ser	Ser	Phe	Lys	Asn	Ile	Leu	Ala	Asn
385					390					395					400
Tyr	Ser	Pro	Glu	Asn	Val	Ser	Arg	Ile	Thr	Gly	Ile	Ser	Val	Ala	Ser
				405					410						415
Ile	Glu	Ala	Ala	Ala	Ser	Met	Ile	Gly	Asn	Ala	Lys	Lys	Ile	Ala	Tyr
			420					425					430		
His	Ser	Trp	Ser	Gly	Val	Ala	Gln	His	Thr	Asn	Ala	Thr	Gln	Thr	Glu
		435					440					445			
Arg	Ala	Ile	Ala	Thr	Leu	Tyr	Ala	Leu	Thr	Gly	Cys	Phe	Asp	Gln	Glu
	450					455					460				
Gly	Cys	Asn	Arg	Ile	Tyr	Ala	Ser	His	Pro	Val	Asn	Val	Val	Asn	Ser
465					470					475					480
Pro	Thr	Leu	Met	Pro	Lys	Thr	Gln	Trp	Glu	Lys	Ala	Leu	Gly	Leu	Glu
				485					490						495
Glu	Arg	Pro	Ile	Gly	Pro	Pro	Ser	Gln	Gly	Trp	Val	His	Ser	Gln	Asp
			500					505					510		
Ile	Trp	His	Ser	Val	Leu	Glu	Gly	Thr	Pro	Tyr	Lys	Ile	Arg	Gly	Leu
		515					520					525			
Ile	Gly	Phe	Gly	Ala	Asn	Ile	Leu	Leu	Ser	Gln	Ser	Asp	Thr	Ser	Leu
	530					535					540				
Gly	Gln	Gln	Ala	Leu	Glu	Ala	Leu	Glu	Phe	Tyr	Ala	His	Val	Asp	Leu
545					550				555						560
Phe	Glu	Thr	Pro	Thr	Ser	Lys	Tyr	Ala	Asp	Ile	Leu	Leu	Pro	Val	Asn
				565					570						575
Thr	Ala	Trp	Glu	Arg	Glu	Gly	Leu	Arg	Ala	Gly	Phe	Glu	Ser	Ser	Ala
			580					585					590		
Ala	Ala	Gln	Glu	His	Ile	Gln	Leu	Arg	Lys	Gln	Met	Val	Ser	Pro	Arg
		595					600					605			
Gly	Glu	Ser	Arg	Ser	Asp	Leu	Glu	Ile	Val	Phe	Asp	Leu	Ala	Cys	Arg
	610					615					620				
Leu	Gly	Met	Asn	Glu	Ala	Phe	Phe	Asp	Gly	Asn	Ile	Glu	Ser	Ala	Trp
625					630					635					640
Asn	Tyr	Gln	Leu	Lys	Pro	Leu	Gly	Leu	Thr	Val	Glu	Met	Leu	Arg	Asn
				645					650						655
Lys	Pro	Glu	Gly	Tyr	Asp	Ile	Pro	Leu	Glu	His	Lys	Val	Arg	Lys	Tyr
			660					665					670		
Ala	Leu	Lys	Asp	Gln	Lys	Thr	Gly	Tyr	Leu	Thr	Gly	Phe	Asn	Thr	Glu
		675					680					685			
Thr	Lys	Arg	Ala	Glu	Phe	Tyr	Ser	Glu	Val	Leu	His	Arg	His	Gly	Tyr
	690					695					700				
Asn	Pro	Leu	Pro	Glu	Tyr	Val	Gln	Pro	Gln	Glu	Tyr	Gln	Arg	Asn	Asp
705					710					715					720
Pro	Asp	Phe	Pro	Leu	Met	Leu	Thr	Ser	Val	Lys	Ser	Gly	Phe	Phe	Cys
				725					730						735
His	Ser	Gln	His	Arg	Ser	Leu	Thr	Ser	Leu	Arg	Lys	Lys	Ala	Ser	Tyr
			740					745					750		
Pro	Thr	Val	Glu	Ile	Ser	Val	Thr	Leu	Ala	Asp	Glu	Glu	Lys	Ile	Lys
		755					760					765			
Thr	Gly	Asp	Trp	Val	Glu	Ile	Glu	Thr	Arg	Val	Gly	Gln	Ala	Arg	Phe
	770					775					780				
Arg	Ala	Lys	Val	Glu	Glu	Lys	Leu	Ser	His	Glu	Thr	Val	Ile	Ala	Glu
785					790					795					800
Phe	Gly	Trp	Trp	Gln	Gly	Cys	Pro	Asp	Phe	Gly	Lys	Pro	Ser	Tyr	Pro
				805					810						815
Val	Ile	Gly	Glu	Phe	Ser	Ser	Asn	Phe	Asn	Ser	Leu	Ile	Ser	Gly	Asp
			820					825					830		
Ser	Tyr	Asp	Pro	Val	Ser	Gly	Ala	Leu	Pro	Leu	Arg	Ser	Phe	Arg	Cys
		835					840					845			

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Arg Ile Arg Arg Leu Asn Glu Phe Glu Leu Val Arg Arg Pro Trp Asp
850      855      860
Gly Arg Arg Thr Phe Gln Val Ile Ser Leu Lys Lys Glu Thr Asp Asn
865      870      875      880
Val Thr Thr Val Thr Phe Gln Ser Lys Ala Glu Gly Phe Leu Pro Asp
885      890      895
Tyr Glu Pro Gly Gln His Val Thr Ile Ser Cys Tyr Pro Leu Ile Asp
900      905      910
Ser Glu Asp Ile Val Thr Arg Ala Tyr Ser Leu Thr Gly Pro Ala Phe
915      920      925
Val Asp Ala Arg Lys Thr Tyr Ser Ile Ser Val Arg His Gln Thr Ala
930      935      940
Arg Asp Glu Asn Gly Glu Phe Val Glu Gly Ile Met Ser Ser Phe Ile
945      950      955      960
Asn Thr Arg Leu Gln Val Gly Ser Phe Val Glu Ile Thr Pro Pro Gly
965      970      975
Gly Asn Phe Ile Val Pro Leu Asn Ala Met Gln Pro Val Val Ile Phe
980      985      990
Ala Gly Gly Ile Gly Ile Thr Pro Phe Ile Cys Tyr Leu Glu Ser Ile
995      1000      1005
Asp Pro Asp Glu Thr Gly Pro Glu Ile Trp Leu Phe Tyr Ala Asn Gln
1010      1015      1020
Asn Ser Lys Gln His Ala Phe Lys Lys Arg Ile Gln Glu Leu Ser Ser
1025      1030      1035      1040
Leu Ile Ser Arg Leu Lys Val Ile Asn Val Tyr Asn Gln Pro Leu Asp
1045      1050      1055
Cys Asp Val Leu Gly Glu Asp Tyr Asp Arg Ala Gly Phe Ala Gly Ala
1060      1065      1070
Gly Asp Val Asp Ala His Leu Ile Glu Asn Asn Ala Arg Tyr Tyr Met
1075      1080      1085
Cys Gly Pro Met Pro Met Met Glu Ala Ile Ser Lys Gly Leu Gln Gln
1090      1095      1100
Arg Gly Val Pro Ala Phe Ala Ile Phe Tyr Glu Ile Phe Arg Ser Pro
1105      1110      1115      1120
Ala Lys Ile Asn Asp Asp Pro Ser Leu Arg His Lys Val Thr Phe Ala
1125      1130      1135
Lys Ser Gly Arg Glu Glu Ile Trp Thr Thr Asp Lys Gly Thr Leu Leu
1140      1145      1150
Asn Phe Gly Glu Lys Leu Gly Ile Ser Met Pro Ser Gly Cys Arg Val
1155      1160      1165
Gly Gln Cys Glu Ser Cys Ser Thr Lys Val Ile Thr Gly Ser Val Gln
1170      1175      1180
His Leu Asn Asn Val Glu Pro Ser Asp Glu Gly Ala Cys Leu Thr Cys
1185      1190      1195      1200
Gln Cys Ile Pro Ala Gly Asp Ile Thr Ile Asp Ala
1205      1210

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<210> 6228

<211> 433

<212> PRT

<213> Enterobacter cloacae

<400> 6228

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Glu Ile Ala Thr Gly Ala Asn Phe Gly Leu Ser Glu Gly Phe Trp Gly
1      5      10      15
Thr Lys Arg Val Ile Met Met Lys Met Ser Ile Arg Thr Met Val Met
20      25      30
Ala Val Ala Val Ala Ile Thr Ala Ser Thr Ser Val Ala Val Ala Lys
35      40      45
Glu Asp Gly Ser Gly Lys Thr Ser Thr Ala Gln Ile Pro Ala Gly Pro
50      55      60

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Gln Val Pro Val Ala Glu Val Ile Ser Arg Asn Ile Ile Pro Ser Ala
 65 70 75 80
 Glu Phe Thr Gly Ser Leu Ala Ala Ile Lys Thr Val Glu Leu Arg Pro
 85 90 95
 Arg Val Gly Gly Thr Ile Glu Ser Val Ser Val Pro Glu Gly Ser Leu
 100 105 110
 Val His Lys Gly Gln Leu Leu Phe Gln Ile Asp Pro Arg Pro Phe Gln
 115 120 125
 Val Ala Leu Asp Ser Ala Lys Ala Gln Leu Arg Gln Ala Glu Ala Gln
 130 135 140
 Ala Phe Gln Ala Asn Arg Asn Phe Glu Arg Val Ser Arg Leu Val Asn
 145 150 155 160
 Asn Gly Ala Val Ser Arg Lys Asp Tyr Asp Asp Ala Ala Ser Asp Lys
 165 170 175
 Asn Ala Arg Ile Ala Gln Val Asn Val Ala Gln Ala Ala Val Glu Ala
 180 185 190
 Ala Lys Leu Asp Leu Ser Tyr Thr Arg Val Thr Ala Pro Ile Asp Gly
 195 200 205
 Arg Val Asp Arg Ile Leu Ile Thr Glu Gly Asn Leu Ile Ser Asn Ser
 210 215 220
 Glu Gly Gly Ala Ala Thr Leu Leu Thr Thr Ile Val Ser Ser Asn Pro
 225 230 235 240
 Leu Tyr Ala Tyr Phe Asp Ile Asp Glu Ala Thr Phe Leu Asn Thr Val
 245 250 255
 Ser Lys Ala Arg Pro Asp Ala Met Glu Gly Ser Lys Glu Lys Leu Pro
 260 265 270
 Val His Val Gly Leu Ala Thr Glu Lys Gly Tyr Pro His Ser Gly Thr
 275 280 285
 Leu Asp Phe Val Gly Asn Gln Ile Asp Arg Asn Thr Gly Thr Val Arg
 290 295 300
 Val Arg Ala Ile Ile Pro Asn Thr Asp Gly Leu Leu Thr Pro Gly Ala
 305 310 315 320
 Phe Ala Arg Val Gln Leu Gly Thr Gly Lys Ala Gln Gln Val Ile Leu
 325 330 335
 Ile Asn Asp Gln Ala Val Gly Thr Asn Gln Gly Asn Lys Tyr Val Leu
 340 345 350
 Val Ile Gly Asp Asp Ser Lys Ala Gln Tyr Arg Pro Ile Glu Leu Gly
 355 360 365
 Pro Val Val Asp Gly Leu Arg Ile Val Ala Lys Gly Leu Gln Ala Gly
 370 375 380
 Glu Lys Ile Ile Ile Lys Gly Leu Val Arg Pro Gly Met Ala Val Thr
 385 390 395 400
 Pro Ser Met Val Ser Met Gln Ser Leu Glu Ser Ser Leu Asp Ala Lys
 405 410 415
 Pro Ala Thr Gln Gly Lys Ala Ser Asp Ser Asn Asn Lys Gly Gly Asn
 420 425 430

<210> 6229

<211> 182

<212> PRT

<213> Enterobacter cloacae

<400> 6229

Thr Val Arg Cys Ser Gly Arg Asp Pro Pro Ser Ser Glu Arg Val Glu
 1 5 10 15
 Ala Gly Tyr Gly Arg Thr Gly His Ile Lys Lys Ser Arg Gly Val Leu
 20 25 30
 Arg Lys Ala Val Arg Leu Arg Tyr Ala Phe Ile Arg Asp Asn Ser Arg
 35 40 45

Cys Trp Pro Val Arg Leu Leu Cys Arg Val Leu Asp Val His Pro Ser
 50 55 60
 Gly Phe Tyr Phe Trp Leu Gln Gln Pro His Ser Gln Arg His Gln Thr
 65 70 75 80
 Asp Gln Met Leu Thr Gly Gln Ile Lys Gln Phe Trp Leu Glu Ser Gly
 85 90 95
 Cys Val Tyr Gly Tyr Arg Lys Ile Asn Leu Asp Leu Arg Asp Thr Gly
 100 105 110
 Gln Gln Cys Gly Val Asn Arg Val Trp Arg Leu Met Lys Arg Ala Gly
 115 120 125
 Ile Lys Ala Gln Val Gly Tyr Arg Thr Pro Arg Ala Arg Lys Gly Glu
 130 135 140
 Ser Ser Ile Val Thr Pro Asn Met Leu Gln Arg Gln Phe Asn Pro Asp
 145 150 155 160
 Ser Pro Asp Glu Arg Trp Val Thr Asp Ile Thr Tyr Ile Arg Thr His
 165 170 175
 Glu Cys Trp Leu Tyr Leu
 180

<210> 6230
 <211> 97
 <212> PRT
 <213> Enterobacter cloacae

<400> 6230
 Arg Glu Val Pro Met Ser Gly Lys Arg Tyr Pro Glu Glu Phe Lys Ile
 1 5 10 15
 Glu Ala Val Lys Gln Val Val Asp Arg Gly His Ser Val Ser Ser Val
 20 25 30
 Ala Thr Arg Leu Asp Ile Thr Thr His Ser Leu Tyr Ala Trp Ile Lys
 35 40 45
 Lys Tyr Gly Pro Asp Ser Ser Thr His Asn Glu Gln Ser Asp Ala Gln
 50 55 60
 Ala Glu Ile Arg Arg Leu Gln Lys Glu Leu Lys Arg Val Thr Asp Glu
 65 70 75 80
 Arg Asp Ile Leu Lys Lys Ala Ala Ala Tyr Phe Ala Lys Leu Ser Asp
 85 90 95

<210> 6231
 <211> 794
 <212> PRT
 <213> Enterobacter cloacae

<400> 6231
 Arg Gln Arg Leu Trp Glu Met Lys Lys Asn Ile Glu Asn Phe Glu Thr
 1 5 10 15
 Phe Ile Ile Glu Gln Lys Ala Trp Phe Glu Glu Asn Leu Ala Ala Asp
 20 25 30
 Phe Ala Glu Ser Trp Asp Ser Phe Val Trp Ile Cys Gly Ile Lys Gly
 35 40 45
 Ser Gly Trp Leu Arg Gly Asn Gly Ala Asn Leu Leu Arg Phe Asp Glu
 50 55 60
 Val Asn Arg Leu Lys Gly Ile Asp Asp Arg His Thr Val Ser Glu Pro
 65 70 75 80
 Tyr Gln Leu Phe Met Lys Ala Met Leu Val Leu Val Tyr Arg Gly Arg
 85 90 95
 Asn Arg Ser Ile Ser Ser Ala Val Ala Val Ala Thr Leu Ile Leu
 100 105 110
 Lys Arg Trp Tyr Cys Ala Leu Ile Lys Leu Thr Gly Gln Thr His Pro

		115					120					125				
Ile	Tyr	Leu	Thr	Thr	Asp	Val	Val	Arg	Ser	Ala	Met	Asp	Thr	Leu	Ser	
	130					135					140					
Ala	Ala	Ser	Arg	Pro	Gly	Asp	Thr	Asn	Leu	Ala	Asn	Tyr	Lys	Gly	Arg	
145					150					155					160	
Cys	Val	Lys	Ile	Gln	Lys	Leu	Val	Asn	His	His	Ala	Phe	Thr	Leu	Val	
				165				170						175		
Thr	Leu	Gln	Tyr	Val	Ser	Asp	Asp	Cys	Tyr	Thr	Asn	Gln	Thr	Asn	Leu	
			180					185					190			
Thr	Arg	Lys	Ala	Arg	Glu	Thr	Ile	Ser	Leu	Lys	Glu	Lys	Asp	Lys	Leu	
		195					200					205				
Asp	Asp	Thr	Ser	Thr	Asp	Gly	Glu	Asp	Thr	Leu	Ile	Thr	Ile	Lys	Gly	
	210					215					220					
Phe	Leu	Asn	Ile	Val	Ser	Leu	Ile	Gln	Arg	Val	Glu	Ser	Gly	Thr	Glu	
225					230					235					240	
Lys	Ile	Ala	Leu	Asn	Cys	Leu	Leu	Leu	Leu	Ile	Val	Thr	Gly	Phe	Arg	
				245					250					255		
Ser	Val	Glu	Ala	Phe	Asn	Leu	Arg	Gln	Asp	Ala	Leu	Val	Lys	Arg	His	
			260					265					270			
Ile	Asp	Asn	Ser	Asp	Leu	Ser	Lys	Arg	Leu	Arg	Asn	Lys	Gly	Leu	Pro	
		275					280					285				
Asp	Tyr	Phe	Leu	Gly	Ile	Arg	Tyr	Val	Gly	Val	Lys	Gly	Ala	Gly	Glu	
	290					295					300					
Arg	Thr	His	Trp	Val	Glu	Pro	Leu	Ala	Val	Pro	Leu	Val	Glu	Asn	Ile	
305					310					315					320	
Phe	Lys	Ser	Val	Lys	Leu	Leu	Thr	Ala	Glu	Phe	Arg	Lys	His	Ile	Glu	
				325					330					335		
Tyr	Leu	Arg	Ser	Lys	Lys	Phe	Ser	Asp	Tyr	Leu	Pro	Lys	Pro	Ile	Ser	
			340					345					350			
Asp	Ile	Thr	Gly	Glu	Leu	Val	Glu	Leu	Asp	Asp	Ile	Val	Lys	Tyr	Met	
		355					360					365				
Val	Gln	Ser	Ser	Ser	Glu	Leu	Arg	Gly	Arg	Ala	Gly	Leu	Arg	Asp	Lys	
		370				375					380					
Ala	Ser	Lys	Ala	Leu	Glu	Lys	Arg	Gly	Phe	Ile	Pro	Ala	Lys	Val	Ile	
385					390					395					400	
Leu	Lys	Ser	Gly	Asn	Glu	Lys	Glu	Lys	Tyr	Phe	Thr	Lys	Ser	Asp	Leu	
				405					410					415		
Ser	Asn	Phe	Leu	Lys	Ser	Glu	Phe	Gly	Asp	Asn	Ser	Ala	Asn	Thr	Pro	
			420					425					430			
Cys	Thr	His	Ala	Trp	Ala	Glu	Asn	Gly	Lys	Arg	Tyr	Glu	Ile	Lys	Tyr	
		435					440					445				
Glu	Glu	Leu	Leu	Phe	Leu	Phe	Pro	Lys	Gly	Ser	Leu	Thr	Leu	Lys	Arg	
		450				455					460					
Val	Leu	Gln	Leu	Lys	Ala	Thr	Pro	Leu	Pro	Leu	Asn	Asn	Asn	Gly	Leu	
465					470			</								

His Thr Phe Asp Asp Arg Tyr Asp Val Ala Gly Phe Ile Glu Ala Ser
 610 615 620
 Ser Gly Asp Gly Leu Phe Glu Asp Ile Ala Ala Phe Glu Glu Ile
 625 630 635 640
 Ser Lys Asn Glu Gly Pro Leu Gln Ala Ser Glu Met Val Gln Arg His
 645 650 655
 Ala Val Leu His Pro Leu Lys Leu Gly Ser Cys Met Arg Asp Val Asn
 660 665 670
 Leu Trp Gly Cys Pro Tyr Arg Met Lys Cys Gln Ala Leu Lys Pro Cys
 675 680 685
 Glu His Phe Thr Leu Thr Gly Arg Ile Asp Glu Tyr Ser Thr Ile Ala
 690 695 700
 Val Lys Gly Arg Ala Leu Asn Glu Ala Ser Leu Ala Phe Glu Gln Tyr
 705 710 715 720
 Ile Ala Ala Leu Pro Asp Asn Gln Leu Ile Gln Gly Asn Ile Glu Glu
 725 730 735
 Asn Leu Thr His Leu Asp Ala Leu Ser Asp Gln Leu Arg Arg Arg Ser
 740 745 750
 Asn Leu Leu Gln Val Leu Ser Ala Gln Glu Ile Leu Ser Gly Glu Ile
 755 760 765
 Lys Val Glu Gly Glu Ile Arg Thr Leu Ala Gln Leu Phe Ala Leu Glu
 770 775 780
 His His Lys Asn Lys Glu Glu Asn
 785 790

<210> 6232

<211> 93

<212> PRT

<213> Enterobacter cloacae

<400> 6232

Arg Phe Thr Val Gly Asn Asn Asp Val Leu Glu Val Gly Val Ala Glu
 1 5 10 15
 Gln Leu Glu Phe Phe Pro Val Gln Ser Pro Cys Arg Gly Ile Cys Gln
 20 25 30
 Val Asp Glu Arg Gly Tyr Cys Arg Gly Cys Met Arg Thr Arg Asp Glu
 35 40 45
 Arg Phe Asn Trp Gln Asn Phe Ser Asp Ala Gln Lys Gln Glu Val Leu
 50 55 60
 Arg Leu Cys Arg Gln Arg Leu Leu Arg Lys Ile Arg Ala Asn Lys Ala
 65 70 75 80
 Val Glu Pro Glu Glu Pro Gln Gln Pro Ser Leu Phe
 85 90

<210> 6233

<211> 307

<212> PRT

<213> Enterobacter cloacae

<400> 6233

His Tyr Phe Leu Glu Glu Asn Val Met Val Gln Arg Ile Thr Leu Ala
 1 5 10 15
 Pro Gln Gly Pro Glu Phe Ser Arg Phe Val Met Gly Tyr Trp Arg Leu
 20 25 30
 Met Asp Trp Asn Met Ser Pro Val Gln Leu Ala Asp Phe Ile Glu Glu
 35 40 45
 His Leu Asp Leu Gly Ile Thr Val Asp His Ala Asp Ile Tyr Gly
 50 55 60
 Gly Tyr Gln Cys Glu Ala Phe Gly Glu Ala Leu Lys Arg Ala Pro
 65 70 75 80
 Gly Leu Arg Glu Arg Met Glu Ile Val Thr Lys Cys Gly Ile Ala Thr

				85				90					95				
Thr	Ala	Lys	Pro	Glu	His	Ala	Leu	Gly	His	Tyr	Ile	Thr	Asp	Ser	Ala		
			100					105					110				
His	Ile	Val	Lys	Ser	Ala	Glu	Gln	Ser	Leu	Val	Asn	Leu	Ala	Thr	Asp		
		115					120					125					
Arg	Ile	Asp	Leu	Leu	Leu	Ile	His	Arg	Pro	Asp	Pro	Leu	Met	Asp	Ala		
	130					135					140						
Asp	Glu	Val	Ala	Glu	Ala	Phe	Leu	Thr	Leu	His	Gln	Ser	Gly	Lys	Val		
145				150					155					160			
Arg	His	Phe	Gly	Val	Ser	Asn	Phe	Thr	Pro	Ala	Gln	Phe	Ala	Leu	Leu		
			165					170						175			
Gln	Ser	Arg	Leu	Pro	Phe	Thr	Leu	Ala	Thr	Asn	Gln	Val	Glu	Ile	Ser		
			180					185					190				
Pro	Val	His	Gln	Pro	Leu	Leu	Leu	Asp	Gly	Thr	Leu	Asp	Gln	Leu	Gln		
		195					200					205					
Gln	Leu	Arg	Ile	Arg	Pro	Met	Ala	Trp	Ser	Cys	Leu	Gly	Gly	Gly	Arg		
	210					215					220						
Leu	Phe	Asn	Asp	Glu	Ala	Phe	Gln	Pro	Leu	Arg	Asn	Glu	Leu	Glu	Thr		
225				230						235				240			
Val	Ala	Arg	Glu	Leu	Asn	Ala	Glu	Ser	Ile	Glu	Gln	Val	Val	Tyr	Ala		
			245						250					255			
Trp	Ile	Leu	Arg	Leu	Pro	Ser	Lys	Pro	Leu	Pro	Ile	Ile	Gly	Ser	Gly		
		260						265					270				
Lys	Ile	Glu	Arg	Val	Arg	Ala	Ala	Leu	Val	Ala	Glu	Glu	Leu	Asp	Met		
		275					280					285					
Thr	Arg	Gln	Gln	Trp	Phe	Arg	Ile	Arg	Lys	Ala	Ala	Leu	Gly	Tyr	Asp		
	290					295					300						
Val	Pro																
305																	

<210> 6234

<211> 191

<212> PRT

<213> Enterobacter cloacae

<400> 6234

Asn	Leu	Arg	Leu	Trp	Tyr	Arg	Leu	Lys	Val	Gln	Lys	Ile	Thr	Arg	Gly		
1				5					10					15			
Gly	His	Met	Lys	Arg	Phe	Ala	Leu	Ala	Met	Val	Thr	Leu	Val	Val	Cys		
			20					25					30				
Ala	Gly	Ala	Gln	Ala	Ala	Ser	Glu	Asp	Val	Glu	Met	Asn	Leu	Val	Thr		
		35					40					45					
Ser	Gln	Gly	Val	Gly	Gln	Ser	Ile	Gly	Thr	Val	Lys	Ile	Thr	Glu	Thr		
	50					55					60						
Asp	Lys	Gly	Leu	Glu	Phe	Ala	Pro	Asp	Leu	Lys	Ala	Leu	Pro	Pro	Gly		
65				70					75					80			
Glu	His	Gly	Phe	His	Val	His	Ala	Lys	Gly	Ser	Cys	Gln	Pro	Ala	Met		
			85						90					95			
Lys	Glu	Gly	Lys	Pro	Thr	Ala	Ala	Glu	Ala	Ala	Gly	Gly	His	Leu	Asp		
			100					105					110				
Pro	Gln	Asn	Ser	Gly	Lys	His	Glu	Gly	Pro	Glu	Gly	Met	Gly	His	Leu		
		115					120					125					
Gly	Asp	Leu	Pro	Val	Leu	Val	Val	Asn	Asn	Asp	Gly	Lys	Ala	Thr	Asp		
	130					135					140						
Pro	Val	Val	Ala	Pro	Arg	Leu	Lys	Lys	Leu	Asp	Glu	Val	Lys	Gly	Lys		
145				150					155					160			
Ala	Leu	Met	Ile	His	Val	Gly	Gly	Asp	Asn	Met	Ser	Asp	Gln	Pro	Lys		
			165						170					175			
Pro	Leu	Gly	Gly	Gly	Gly	Ala	Arg	Tyr	Ala	Cys	Gly	Val	Ile				
		180						185					190				

<210> 6235
 <211> 94
 <212> PRT
 <213> Enterobacter cloacae

<400> 6235
 Asn Leu Pro Leu Trp Pro Ser Phe His Arg Lys Gly Ser Leu Leu Val
 1 5 10 15
 Thr Leu Phe Ser Phe Ser Ala Gly Leu Pro Leu Gln Asp Leu Ile Val
 20 25 30
 Gly Ala Ser Val Tyr Phe Pro Pro Leu Phe Lys Ala Val Met Val Gly
 35 40 45
 Phe Val Ile Trp Leu Ile Ala His Arg Leu Leu Arg Asp Trp Met Tyr
 50 55 60
 Ser Gly Glu Ile Trp His Pro Met Leu Met Asp Leu Ser Leu Phe Thr
 65 70 75 80
 Leu Ser Val Cys Leu Gly Leu Ala Val Leu Thr Val Trp
 85 90

<210> 6236
 <211> 700
 <212> PRT
 <213> Enterobacter cloacae

<400> 6236
 Ser Thr Ala Glu Arg His Tyr Pro Gly Leu Trp His Asn Leu His Cys
 1 5 10 15
 Arg His Arg Ile Ala Met Met Asn Leu Gly Ala Leu Ser Trp Arg Asn
 20 25 30
 Thr Pro Trp Ile Lys Ala Thr Arg Pro Gln Trp Arg Tyr Ala Leu Arg
 35 40 45
 Asn Gly Ile Ala Met Cys Leu Ala Leu Thr Val Ala Tyr Tyr Leu Asn
 50 55 60
 Leu Asp Glu Pro Tyr Trp Ala Met Thr Ser Ala Ala Val Val Ser Phe
 65 70 75 80
 Pro Thr Val Gly Gly Val Ile Ser Lys Ser Leu Gly Arg Val Ala Gly
 85 90 95
 Ser Leu Leu Gly Ala Thr Ala Ala Leu Leu Leu Ala Gly His Thr Leu
 100 105 110
 Asn Asp Pro Trp Leu Phe Leu Leu Ser Met Ser Ala Trp Leu Gly Leu
 115 120 125
 Cys Thr Trp Ala Cys Ala His Phe Thr Asn Asn Val Ala Tyr Ala Phe
 130 135 140
 Gln Leu Ala Gly Tyr Thr Ala Ala Ile Ile Ala Phe Pro Val Val Asn
 145 150 155 160
 Val Leu Asp Thr Thr Glu Leu Trp Asp Ile Ala Gln Ala Arg Val Cys
 165 170 175
 Glu Val Met Val Gly Ile Leu Cys Gly Gly Val Met Met Met Ile Leu
 180 185 190
 Pro Ser Thr Ser Asp Gly Thr Thr Leu Ile Thr Ala Leu Lys Thr Met
 195 200 205
 His Ala Arg Leu Leu Glu His Ala Ser Leu Leu Trp Gln Pro Asp Ser
 210 215 220
 Ser Asp Asp Ile Arg Leu Ala His Glu Lys Val Ile Gly Gln Ile Leu
 225 230 235 240
 Thr Met Asn Leu Leu Arg Ile Gln Ala Phe Trp Ser His Tyr Arg Phe
 245 250 255
 Arg Arg Gln Asn Thr Leu Leu Asn Tyr Leu Leu His Gln Gln Leu Arg
 260 265 270
 Met Thr Ser Ala Ile Ser Ser Leu Arg Arg Met Leu Leu Asn Trp Pro
 275 280 285

Thr Pro Pro Ala His Thr Arg Glu Ile Ile Glu Ala Leu Leu Ala Thr
 290 295 300
 Leu Ala Arg Ser Asp Ala Asp Ile Tyr Thr Val Ala Arg Ile Ile Ala
 305 310 315 320
 Pro Leu Ala Pro Ala Asp Glu Tyr Asp Tyr Arg His Arg Ala Phe Trp
 325 330 335
 Gln Arg Leu Asn Tyr Phe Cys Arg Leu Tyr Leu Arg Ser Ser Arg Trp
 340 345 350
 Leu Lys Ala Val Glu Asn Ala Thr Pro Val Thr Glu Phe Ser Val Pro
 355 360 365
 Gly Ser Pro Ala Leu Ala Arg His Thr Asp Ala Met Glu Ala Leu Trp
 370 375 380
 Ser Gly Phe Arg Thr Phe Cys Ala Leu Thr Ala Val Gly Ala Trp Ala
 385 390 395 400
 Ile Thr Thr Gln Trp Asp Ala Gly Ser Ala Ala Leu Thr Leu Ala Ala
 405 410 415
 Ile Ser Cys Val Leu Tyr Ser Val Ala Ala Ser Pro Phe Asn Ser Leu
 420 425 430
 Thr Leu Leu Leu Arg Thr Leu Val Leu Leu Ser Leu Phe Ser Phe Val
 435 440 445
 Val Lys Phe Gly Leu Met Val Gln Ile Thr Asp Leu Trp Gln Phe Leu
 450 455 460
 Leu Phe Leu Phe Pro Leu Leu Thr Thr Met Gln Leu Leu Lys Leu Gln
 465 470 475 480
 Met Pro Lys Leu Ala Gly Leu Trp Gly Gln Leu Ile Val Phe Met Gly
 485 490 495
 Ser Phe Ile Ser Val Thr Asn Pro Pro Val Tyr Asp Tyr Ala Asp Phe
 500 505 510
 Leu Asn Asp Asn Leu Ala Lys Ile Leu Gly Val Gly Leu Ala Trp Leu
 515 520 525
 Ala Phe Ala Val Leu Arg Pro Gly Ser Asp Ala Arg Lys Ser Arg Arg
 530 535 540
 His Ile Arg Glu Leu Arg Arg Gly Phe Val Asp Gln Leu Ser Arg Arg
 545 550 555 560
 Pro His Leu Arg Glu Ser Glu Tyr Glu Ser Leu Val Tyr His His Val
 565 570 575
 Ser Gln Leu Asn Asn Ser Gln Asp Ser Leu Ser Arg Arg Trp Leu Leu
 580 585 590
 Arg Trp Gly Val Val Leu Leu Asn Cys Ser His Val Val Trp Gln Leu
 595 600 605
 Arg Ala Trp Glu Thr Arg Ser Asp Pro Leu Ser Gln Val Arg Asp Asn
 610 615 620
 Cys Ile Ser Met Leu Arg Asp Val Met Ser Glu Arg Gly Val Gln Gln
 625 630 635 640
 Arg Pro Leu Ser Val Thr Leu Ala Glu Leu Gln Arg Ile Cys Asp Thr
 645 650 655
 Leu Ala His His His Gln Pro Ala Ala Arg Asp Leu Ala Ser Ile Ile
 660 665 670
 Trp Arg Leu His Cys Ser Leu Ser Gln Leu Glu Gln Ala Pro Pro Pro
 675 680 685
 Gly Thr Ile Gly Asp Gln Ile Thr Pro Gln Ala
 690 695 700

<210> 6237

<211> 315

<212> PRT

<213> Enterobacter cloacae

<400> 6237

Asn Leu Ala Pro Asp Val Asn Gly Ser Leu Pro Val Tyr Pro Leu Arg
 1 5 10 15

Leu Ser Trp Pro Cys Arg Val Asn Arg Val Val Arg Ile Ala Leu Lys
 20 25 30
 Thr Leu Lys Tyr Phe Ser Thr Leu Phe Val Leu Ala Leu Ile
 35 40 45
 Ala Gly Trp Trp Leu Trp Asn Tyr Tyr Met Gln Ser Pro Trp Thr Arg
 50 55 60
 Asp Gly Lys Ile Arg Ala Glu Gln Val Ser Ile Thr Pro Gln Val Ser
 65 70 75 80
 Gly Ser Ile Ser Ala Leu Leu Val Lys Asp Asn Gln Ser Val His Ala
 85 90 95
 Gly Asp Val Leu Phe Arg Ile Asp Glu Thr Pro Phe His Ile Ala Val
 100 105 110
 Leu Asn Ala Gln Ala Gln Leu Ala Lys Ala Gln Ser Asp Leu Ala Lys
 115 120 125
 Ala Asn Asn Glu Ala Glu Arg Arg Arg His Leu Ser Arg Asn Tyr Ile
 130 135 140
 Ser Ala Glu Asp Leu Asp Thr Ala Asn Ile Asn Val Lys Ala Met Gln
 145 150 155 160
 Ala Ser Leu Lys Val Ala Glu Ala Thr Leu Lys Gln Ala Glu Trp Gln
 165 170 175
 Leu Thr Gln Thr Val Val Lys Ala Pro Val Asp Gly Trp Ile Thr Ser
 180 185 190
 Leu Ser Thr Arg Val Gly Asp Tyr Ala Thr Thr Gly Gln Pro Val Phe
 195 200 205
 Ala Leu Val Asp Ser Arg Ser Phe Tyr Val Val Gly Tyr Phe Glu Glu
 210 215 220
 Thr Lys Leu Arg His Ile Arg Glu Gly Ala Pro Ala Arg Ile Thr Leu
 225 230 235 240
 Tyr Ser Gly Ala Glu Thr Leu Gln Gly His Val Ser Ser Ile Gly Arg
 245 250 255
 Ala Ile Tyr Asp Gln Ser Val Glu Thr Asp Ser Gly Leu Val Pro Asp
 260 265 270
 Ile Lys Pro Asn Val Pro Trp Val Arg Leu Ala Gln Arg Val Pro Val
 275 280 285
 Arg Val Glu Phe Asp Gln Leu Pro Lys Asp Ile Thr Leu Val Ser Gly
 290 295 300
 Thr Thr Cys Thr Val Ala Ile Gly Ser Arg
 305 310 315

<210> 6238

<211> 400

<212> PRT

<213> Enterobacter cloacae

<400> 6238

Asn Gln Cys Ile Pro Val Ser Arg Met Lys Asn Gln Ser Val Ile Arg
 1 5 10 15
 Gln Phe Ser Glu Ser Glu Leu His Gln Gln Leu Glu Thr Phe Gly Asn
 20 25 30
 His Asp Lys Gln Leu Ser Arg Leu Ile Arg Tyr Phe Ser His Leu Arg
 35 40 45
 Tyr Asn Thr Ala Lys Thr Tyr Leu His Trp Leu Arg Val Trp Asn Glu
 50 55 60
 Trp Tyr Leu Ala Asn Ala Arg Leu His Thr Asp Trp Pro Val Ser Ser
 65 70 75 80
 Leu Pro Val Ser Glu Asp Ala Leu Leu Ala Phe Met Gly His Leu Glu
 85 90 95
 Gly Lys Leu Ser Arg Ser Ser Ile Asn Ser Cys Leu Gln Ala Leu Asn
 100 105 110
 Ser Ile His Lys Lys Gly Leu Asn Leu Pro Gly Ile Ile Thr Ser Glu
 115 120 125

Ala	Trp	Tyr	Met	Leu	Glu	Ala	Leu	Lys	Gln	Ser	Glu	Ala	Arg	Lys	Arg
130						135					140				
Lys	Thr	Thr	Lys	Gln	Ala	Thr	Pro	Phe	Leu	Ile	Gly	Asp	Leu	Lys	Ala
145				150						155					160
Leu	Ile	Lys	Leu	Arg	Ser	Thr	Thr	Asn	Ser	Val	Arg	Lys	Leu	Arg	Asp
			165						170					175	
Leu	Cys	Leu	Ile	Trp	Thr	Gly	Phe	Glu	Thr	Leu	Leu	Arg	Ser	Ser	Glu
		180						185					190		
Ile	Arg	Arg	Ile	Arg	Leu	Lys	Asp	Leu	Ser	Leu	Asp	Ser	Met	Thr	Gly
		195					200					205			
Glu	Phe	Asn	Leu	Thr	Val	Tyr	Arg	Thr	Lys	Thr	Asn	Ile	Ser	Thr	Leu
	210					215					220				
Leu	Thr	Tyr	Arg	Leu	Thr	Arg	Gln	Leu	Thr	Asn	Cys	Leu	Leu	Arg	Leu
225					230					235					240
Met	Asn	Leu	Val	Lys	Met	Asp	Gln	His	Ser	His	Pro	Asp	Glu	Tyr	Leu
			245						250					255	
Phe	Gln	Ala	Val	Asn	Phe	His	Asp	Thr	Gly	Tyr	Met	Pro	Pro	Gly	Trp
		260						265					270		
Lys	Leu	Arg	Ser	Lys	Gly	Asn	Glu	Leu	Ser	Glu	Leu	Leu	Lys	Arg	His
		275					280					285			
Asn	Leu	Pro	Tyr	Arg	Ala	Lys	Gln	Ser	Leu	Leu	Asn	Asp	Glu	Asp	Glu
	290					295					300				
Glu	Asp	Thr	Val	Asp	Asp	Ala	Gly	Met	Leu	Ser	Lys	Asn	Ser	Leu	Leu
305					310					315					320
Arg	Ala	Phe	Lys	Glu	Met	Trp	Asn	Glu	Leu	Tyr	Pro	Asn	Glu	Thr	Lys
			325						330					335	
Thr	Arg	Tyr	Trp	Thr	Gly	His	Ser	Val	Arg	Val	Gly	Gly	Ala	Ile	Gln
			340					345					350		
Leu	Asp	Ile	Glu	Gly	Tyr	Ser	Leu	Pro	Gln	Ile	Met	Glu	Met	Gly	Asn
		355					360					365			
Trp	Ser	Asn	Glu	Glu	Met	Val	Met	Arg	Tyr	Ile	Arg	Asn	Ile	Glu	Ala
	370					375					380				
Gly	Lys	Lys	Ala	Met	Ile	Lys	Leu	Met	Arg	Asn	Ala	Phe	Asp	Glu	
385					390					395					400

<210> 6239

<211> 344

<212> PRT

<213> Enterobacter cloacae

<400> 6239

His	Leu	Cys	Ser	Ala	Arg	Ser	Ala	Trp	Ala	Ala	Lys	Leu	Ile	Gly	Asn
1				5					10					15	
Asn	Met	Ser	Leu	Glu	Lys	Arg	Met	Ser	Tyr	Asp	Asp	Leu	Pro	Tyr	Phe
			20					25					30		
Arg	Asp	Gln	Ile	Leu	Glu	Arg	Ile	Asp	Ser	Leu	Lys	Cys	Phe	Phe	Ser
		35					40					45			
Asn	Thr	Pro	Pro	Met	Met	Ala	Asn	Leu	Met	Thr	Val	Ser	Thr	Val	Ser
	50					55					60				
Arg	Thr	Glu	Glu	Arg	Leu	Lys	Gln	Val	Lys	Pro	Ile	Arg	Val	Ser	Ile
65					70					75					80
Lys	Asp	Asp	Ala	Ser	Val	Glu	Glu	Ile	Ile	Gln	Ala	Leu	Thr	Asp	Ile
			85						90					95	
Cys	Val	Asp	Asp	Ile	Glu	Ser	Leu	Ser	His	Asp	Ser	Thr	Lys	Val	Thr
			100					105					110		
Thr	Lys	Tyr	Pro	Gly	Leu	Ile	Ile	Val	Pro	Glu	Arg	Ala	Asp	Leu	Leu
		115					120					125			
Glu	Ser	Leu	Ile	Thr	Ser	Ile	Asn	Glu	Ala	Lys	Asn	Asp	Phe	Ala	Ala
	130					135					140				
Ala	Met	Arg	Arg	Ile	Asp	Asn	Lys	Lys	Asn	Val	Arg	Phe	Asp	Lys	Val
145					150					155					160

His Lys Lys Leu Pro Gly Leu Val Ala Met His Ser Thr Arg Asn Ile
 165 170 175
 Leu Phe Ile Lys Ser Gln Leu Lys Lys Val Thr Phe Ser Trp Arg Leu
 180 185 190
 Asn Arg Asn Gln Glu Val Lys Thr Ala Glu Gln Leu Val Ser Leu Leu
 195 200 205
 Glu Arg Arg Arg Ala Ser Glu Val Lys Asn Val Ala Thr Thr Asn Leu
 210 215 220
 Asn Val Val Ser Asn Ile Asp Lys Ala Leu His Arg Leu Glu Phe His
 225 230 235 240
 Pro Leu Lys Gln Gly Glu Ser Tyr Arg Leu Cys Arg Thr Asn Ser Phe
 245 250 255
 Pro Val Pro Ile Ala His Ile Phe Ala Phe Arg Pro Glu Gly Gln Glu
 260 265 270
 Arg Asn Gly Asn Lys Tyr Ala Glu Thr Asp Tyr Ser Val Val Lys Ala
 275 280 285
 Ser Leu Pro Ile Phe Ala Ala Gly Asn Ile Pro Gln Leu Lys Thr Leu
 290 295 300
 Ser Asp Trp Ala Pro Glu Asn Ser Gln Gly Pro Ser Asn Gln Arg Lys
 305 310 315 320
 Leu Ser Leu Lys Tyr Thr Glu Leu Val Pro Gly Ala Glu Leu Gly Ile
 325 330 335
 Phe Ile Val Ser Pro Glu Asn
 340

<210> 6240

<211> 202

<212> PRT

<213> Enterobacter cloacae

<400> 6240

Phe Ser Gln Ile Glu Lys Met Gly Arg Arg Phe Asn Phe Asn Ser Ser
 1 5 10 15
 Ala Ser Arg Tyr Ser Leu Asn Pro Leu Gly Tyr Ala Gly Ile Gly Ala
 20 25 30
 Asp Gly Ala Phe Asn Thr Ala Ile Ser Phe Thr Thr Asn Thr Asn Trp
 35 40 45
 Gln Trp Tyr Ser Gly Glu Ala Met Ser Asn Leu Ser Gln Met Leu
 50 55 60
 Ala Leu Thr Ile His Asn Phe Leu Ser Ala Ala Thr Gly Ile Ala Leu
 65 70 75 80
 Ala Phe Ala Leu Phe Arg Gly Phe Ala Arg Arg Glu Ala Thr Gly Ile
 85 90 95
 Gly Asn Phe Trp Ala Asp Val Thr Arg Val Thr Leu Tyr Val Leu Leu
 100 105 110
 Pro Ile Ser Val Val Tyr Gly Val Phe Leu Ile Ala Ser Gly Val Pro
 115 120 125
 Gln Thr Leu Ala Ala Ser Val Asp Val Ser Thr Leu Glu Gly Val Arg
 130 135 140
 Gln Thr Leu Gly Leu Gly Pro Val Ala Ser Gln Glu Ala Ile Lys Met
 145 150 155 160
 Leu Gly Thr Asn Gly Gly Gly Phe Phe Asn Ala Asn Ser Ala His Pro
 165 170 175
 Phe Glu Asn Pro Asp Ala Leu Thr Asn Phe Ile Glu Leu Leu Val Phe
 180 185 190
 Thr Thr Asp Ser Arg Ile Arg Thr Ser Gly
 195 200

<210> 6241

<211> 101

<212> PRT

<213> Enterobacter cloacae

<400> 6241

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Ile Leu Ile Cys Ala Leu Ile Val Ser Val Leu Leu Leu Ile Pro Leu
1      5      10      15
Ala Met Val Leu Ser Pro Trp Leu Leu Gly Val Leu Arg Phe Leu Leu
      20      25      30
Gly Ala Ala Asp Gly Ala Leu Leu Pro Ala Val Leu Thr Leu Leu Val
      35      40      45
Phe Phe Ser Ser Phe Leu Ile Ala Gly Arg Phe Phe Cys Phe Phe Gln
      50      55      60
Ser Phe Arg Asp Leu Gly Ile Val Ser Gly Pro Leu Val Gly Ala Gly
65      70      75      80
Ile Ser Ala Cys Phe Gly Phe Arg Ala Val Phe Ile Val Thr Ala Gly
      85      90      95
Val Val Leu Phe Asn
      100

```

<210> 6242

<211> 146

<212> PRT

<213> Enterobacter cloacae

<400> 6242

```

Trp Pro Ser Met Pro Asp Ser Ser Gly Cys Gly Met Pro Tyr Trp Lys
1      5      10      15
Arg Gly Leu Thr Met Ile Val Lys Phe His Pro Arg Gly Arg Gly Gly
      20      25      30
Gly Ala Gly Pro Val Asp Tyr Leu Leu Gly Lys Asp Arg Gln Arg Asp
      35      40      45
Gly Ala Ser Val Leu Gln Gly Lys Pro Glu Glu Val Arg Glu Leu Ile
      50      55      60
Asp Ala Ser Pro Tyr Ala Lys Lys Tyr Thr Ser Gly Val Leu Ser Phe
65      70      75      80
Ala Glu Gln Asp Leu Pro Pro Gly Gln Arg Leu Lys Arg Leu Met Ala
      85      90      95
Ser Phe Gln Arg Val Leu Met Pro Gly Leu Asp Lys Asp His Tyr Thr
      100      105      110
Val Leu Trp Val Glu His Arg Asp Lys Gly Pro Ala Gly Ala Glu Leu
      115      120      125
Pro Asp Pro Lys Pro Arg Asn Cys Leu Thr Ala Asn Gly Pro Thr Ile
      130      135      140
Leu
145

```

<210> 6243

<211> 144

<212> PRT

<213> Enterobacter cloacae

<400> 6243

```

Met Pro Leu Thr Arg Leu Arg Leu Ala Gln His Arg Ala Asp Arg Glu
1      5      10      15
Lys Ile Ser Arg Pro Ser Arg Arg Tyr Gln Glu Ala Gly Leu Ala Asp
      20      25      30
Lys Arg Ser Lys Met Leu Thr Met Trp Val Thr Glu Asp Glu His Arg
      35      40      45
Arg Leu Leu Glu Arg Cys Asp Gly Lys Gln Leu Ala Ala Trp Met Arg
      50      55      60
Gln Thr Cys Leu Asp Glu Lys Pro Ala Arg Ala Gly Lys Leu Pro Ser
65      70      75      80

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Ile	Ser	Pro	Ala	Leu	Leu	Arg	Gln	Leu	Ala	Gly	Met	Gly	Asn	Asn	Leu
				85					90					95	
Asn	Gln	Ile	Ala	Arg	Gln	Val	Asn	Ala	Gly	Gly	Ser	Ser	Gly	Leu	Asp
			100					105					110		
Arg	Val	Gln	Val	Val	Ala	Ala	Leu	Met	Ala	Ile	Asp	Ala	Gly	Leu	Glu
		115					120					125			
Arg	Leu	Arg	His	Ala	Val	Leu	Glu	Lys	Gly	Ala	Asp	Asp	Asp	Arg	
	130					135					140				

<210> 6244

<211> 331

<212> PRT

<213> Enterobacter cloacae

<400> 6244

Ala	Arg	Thr	Arg	Arg	Phe	Val	Met	Val	His	Arg	Ser	Met	Leu	Met	Ser
1				5					10					15	
Lys	Lys	Glu	Gln	Thr	Leu	Met	Thr	Pro	Tyr	Leu	Gln	Phe	Asn	Arg	Ser
			20					25					30		
Gln	Trp	Ala	Ala	Leu	Arg	Asp	Ser	Val	Pro	Met	Thr	Leu	Thr	Glu	Gly
		35					40					45			
Glu	Ile	Ala	Arg	Leu	Lys	Gly	Ile	Asn	Glu	Asp	Leu	Ser	Leu	Glu	Glu
	50					55					60				
Val	Ala	Glu	Ile	Tyr	Leu	Pro	Leu	Ser	Arg	Leu	Leu	Asn	Phe	Tyr	Ile
65					70					75					80
Ser	Ser	Asn	Leu	Arg	Arg	Gln	Ala	Val	Leu	Glu	Gln	Phe	Leu	Gly	Thr
				85					90					95	
Asn	Gly	Gln	Arg	Ile	Pro	Tyr	Ile	Ile	Ser	Ile	Ala	Gly	Ser	Val	Ala
			100					105					110		
Val	Gly	Lys	Ser	Thr	Thr	Ala	Arg	Val	Leu	Gln	Ala	Leu	Leu	Ser	Arg
		115					120					125			
Trp	Pro	Glu	His	Arg	Ser	Val	Glu	Leu	Ile	Thr	Thr	Asp	Gly	Phe	Leu
		130				135						140			
His	Pro	Asn	Glu	Val	Leu	Lys	Glu	Arg	Gly	Leu	Met	Lys	Lys	Lys	Gly
145					150					155					160
Phe	Pro	Leu	Ser	Tyr	Asp	Met	His	Arg	Leu	Val	Lys	Phe	Val	Ser	Asp
				165					170					175	
Leu	Lys	Ser	Gly	Val	Pro	His	Val	Thr	Ala	Pro	Val	Tyr	Ser	His	Leu
			180					185					190		
Ile	Tyr	Asp	Arg	Ile	Pro	Asp	Gly	Asp	Lys	Thr	Val	Val	Gln	Pro	Asp
		195					200						205		
Ile	Leu	Ile	Leu	Glu	Gly	Leu	Asn	Val	Leu	Gln	Ser	Gly	Met	Asp	Tyr
	210					215					220				
Pro	His	Asp	Pro	His	His	Val	Phe	Val	Ser	Asp	Phe	Val	Asp	Phe	Ser
225					230					235					240
Ile	Tyr	Val	Asp	Ala	Pro	Glu	Asp	Leu	Leu	Gln	Arg	Trp	Tyr	Ile	Asn
				245					250					255	
Arg	Phe	Leu	Lys	Phe	Arg	Glu	Gly	Ala	Phe	Thr	Asp	Pro	Asp	Ser	Tyr
			260					265					270		
Phe	His	Asn	Tyr	Ala	Gln	Leu	Ser	Glu	Glu	Glu	Ala	Ile	Ser	Val	Ala
		275					280					285			
Thr	Gly	Leu	Trp	Asn	Glu	Ile	Asn	Tyr	Val	Asn	Leu	Lys	Glu	Asn	Ile
	290					295					300				
Leu	Pro	Thr	Arg	Glu	Arg	Ala	Ser	Leu	Ile	Leu	Thr	Lys	Ser	Glu	Lys
305					310					315					320
His	Ala	Val	Asp	Gln	Ile	Arg	Leu	Arg	Lys						
				325					330						

<210> 6245

<211> 395

<212> PRT

<213> Enterobacter cloacae

<400> 6245

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Ile Ile Ser Arg Val Phe Ser Leu Ser Leu Trp Glu Arg Ala Gly Val
1      5      10      15
Trp Gly Val His Ala Pro Pro His Pro Asn Pro Leu Pro Gln Gly Glu
20     25     30
Gly Ile Tyr Ile Cys Glu Gln Tyr Arg Arg His Ala Thr Glu Cys Ala
35     40     45
Ser Ser Glu Arg Ile Arg Val Met Leu Gln Phe Ile Leu Arg Arg Leu
50     55     60
Gly Leu Val Ile Pro Thr Phe Ile Gly Ile Thr Leu Leu Thr Phe Ala
65     70     75     80
Phe Val His Met Ile Pro Gly Asp Pro Val Met Ile Met Ala Gly Glu
85     90     95
Arg Gly Ile Ser Pro Glu Arg His Ala Gln Leu Leu Ala Glu Leu Gly
100    105    110
Leu Asp Lys Pro Met Trp Gln Gln Tyr Leu His Tyr Ile Trp Gly Val
115    120    125
Leu His Gly Asp Leu Gly Ile Ser Leu Lys Ser Arg Leu Pro Val Trp
130    135    140
Asp Glu Phe Val Pro Arg Phe Lys Ala Thr Leu Glu Leu Gly Ile Cys
145    150    155    160
Ala Met Ile Phe Ala Thr Ala Val Gly Ile Pro Val Gly Val Leu Ala
165    170    175
Ala Val Lys Arg Gly Ser Ile Phe Asp His Thr Ala Val Gly Leu Ala
180    185    190
Leu Thr Gly Tyr Ser Met Pro Ile Phe Trp Trp Gly Met Met Leu Ile
195    200    205
Met Leu Val Ser Val Gln Trp Asn Leu Thr Pro Val Ser Gly Arg Val
210    215    220
Ser Asp Met Val Phe Leu Asp Asp Thr Asn Pro Leu Thr Gly Phe Met
225    230    235    240
Leu Ile Asp Thr Ala Ile Trp Gly Glu Glu Gly Asn Phe Ile Asp Ala
245    250    255
Val Ala His Met Ile Leu Pro Ala Met Val Leu Gly Thr Ile Pro Leu
260    265    270
Ala Val Ile Val Arg Met Thr Arg Ser Ser Met Leu Glu Val Leu Gly
275    280    285
Glu Asp Tyr Ile Arg Thr Ala Arg Ala Lys Gly Leu Thr Arg Met Arg
290    295    300
Val Ile Ile Ile His Ala Leu Arg Asn Ala Met Leu Pro Val Val Thr
305    310    315    320
Val Ile Gly Leu Gln Val Gly Thr Leu Leu Ala Gly Ala Ile Leu Thr
325    330    335
Glu Thr Ile Phe Ser Trp Pro Gly Leu Gly Arg Trp Leu Ile Asp Ala
340    345    350
Leu Gln Arg Arg Asp Tyr Pro Val Val Gln Gly Gly Val Leu Leu Val
355    360    365
Ala Thr Met Ile Ile Leu Val Asn Leu Leu Val Asp Leu Leu Tyr Gly
370    375    380
Val Val Asn Pro Arg Ile Arg His Lys Lys
385    390    395

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<210> 6246

<211> 304

<212> PRT

<213> Enterobacter cloacae

<400> 6246

Gly Ala Ile Met Ser Gln Val Thr Gln Asn Lys Val Val Thr Ala Pro

1				5					10				15		
Val	Pro	Met	Thr	Pro	Met	Gln	Glu	Phe	Trp	His	Tyr	Phe	Lys	Arg	Asn
			20					25					30		
Lys	Gly	Ala	Val	Val	Gly	Leu	Val	Tyr	Val	Ser	Ile	Met	Ile	Leu	Ile
		35					40					45			
Ala	Val	Phe	Ala	Asn	Val	Leu	Ala	Pro	Tyr	Asn	Pro	Ala	Asp	Gln	Phe
		50				55					60				
Arg	Asp	Ala	Leu	Leu	Ala	Pro	Pro	Ala	Trp	Gln	Asp	Gly	Gly	Ser	Leu
65					70					75					80
Ala	His	Leu	Leu	Gly	Thr	Asp	Asp	Val	Gly	Arg	Asp	Val	Leu	Ser	Arg
				85				90						95	
Leu	Met	Tyr	Gly	Ala	Arg	Leu	Ser	Leu	Leu	Val	Gly	Cys	Leu	Val	Val
			100					105					110		
Val	Leu	Ser	Leu	Ile	Met	Gly	Ile	Val	Leu	Gly	Leu	Val	Ala	Gly	Tyr
		115					120					125			
Phe	Gly	Gly	Ile	Val	Asp	Asn	Ile	Ile	Met	Arg	Val	Val	Asp	Ile	Met
	130					135					140				
Leu	Ala	Leu	Pro	Ser	Leu	Leu	Leu	Ala	Leu	Val	Leu	Val	Ala	Ile	Phe
145					150					155					160
Gly	Pro	Ser	Ile	Gly	Asn	Ala	Ala	Leu	Ala	Leu	Thr	Phe	Val	Ala	Leu
				165					170					175	
Pro	His	Tyr	Val	Arg	Leu	Thr	Arg	Ala	Ala	Val	Leu	Val	Glu	Val	Asn
			180					185					190		
Arg	Asp	Tyr	Val	Thr	Ala	Ser	Arg	Val	Ala	Gly	Ala	Gly	Ala	Met	Arg
		195					200					205			
Gln	Met	Phe	Ile	Ser	Ile	Phe	Pro	Asn	Cys	Leu	Ala	Pro	Leu	Ile	Val
	210					215					220				
Gln	Ala	Ser	Leu	Gly	Phe	Ser	Asn	Ala	Ile	Leu	Asp	Met	Ala	Ala	Leu
225					230					235					240
Gly	Phe	Leu	Gly	Met	Gly	Ala	Gln	Pro	Pro	Thr	Pro	Glu	Trp	Gly	Thr
				245					250					255	
Met	Leu	Ser	Asp	Val	Leu	Gln	Phe	Ala	Gln	Ser	Ala	Trp	Trp	Val	Val
			260					265					270		
Thr	Phe	Pro	Gly	Leu	Ala	Ile	Leu	Leu	Thr	Val	Leu	Ala	Phe	Asn	Leu
		275					280					285			
Met	Gly	Asp	Gly	Leu	Arg	Asp	Ala	Leu	Asp	Pro	Lys	Leu	Lys	Gln	
	290					295					300				

<210> 6247

<211> 344

<212> PRT

<213> Enterobacter cloacae

<400> 6247

Cys	Arg	Glu	Ala	Asn	Thr	Met	Ser	Thr	His	Gln	Ala	Thr	Thr	Gln	Gln
1				5					10					15	
Pro	Leu	Leu	Gln	Ala	Ile	Asp	Leu	Lys	Lys	His	Tyr	Pro	Val	Lys	Lys
			20					25					30		
Gly	Ile	Phe	Ala	Pro	Glu	Arg	Leu	Val	Lys	Ala	Leu	Asp	Gly	Val	Ser
		35					40					45			
Phe	Ser	Leu	Glu	Arg	Gly	Lys	Thr	Leu	Ala	Val	Val	Gly	Glu	Ser	Gly
		50				55					60				
Cys	Gly	Lys	Ser	Thr	Leu	Gly	Arg	Leu	Leu	Thr	Met	Ile	Glu	Thr	Pro
65					70					75					80
Thr	Gly	Gly	Glu	Leu	Tyr	Tyr	Gln	Gly	Gln	Asp	Leu	Leu	Lys	His	Asp
				85				90						95	
Pro	Gln	Ala	Gln	Lys	Leu	Arg	Arg	Gln	Lys	Ile	Gln	Ile	Val	Phe	Gln
			100					105					110		
Asn	Pro	Tyr	Gly	Ser	Leu	Asn	Pro	Arg	Lys	Lys	Val	Gly	Gln	Ile	Leu
		115					120					125			
Glu	Glu	Pro	Leu	Leu	Ile	Asn	Ser	Asn	Leu	Ser	Lys	Glu	Gln	Arg	Arg

130		135		140
Glu Lys Ala Leu Ala Met Met Ala Lys Val Gly Leu Lys Thr Glu His				
145		150		155
Tyr Asp Arg Tyr Pro His Met Phe Ser Gly Gly Gln Arg Gln Arg Ile				
	165		170	175
Ala Ile Ala Arg Gly Leu Met Leu Asp Pro Asp Val Val Ile Ala Asp				
	180		185	190
Glu Pro Val Ser Ala Leu Asp Val Ser Val Arg Ala Gln Val Leu Asn				
	195		200	205
Leu Met Met Asp Leu Gln Gln Asp Leu Gly Leu Ser Tyr Val Phe Ile				
	210		215	220
Ser His Asp Leu Ser Val Val Glu His Ile Ala Asp Glu Val Met Val				
225		230		235
Met Tyr Leu Gly Arg Cys Val Glu Lys Gly Thr Lys Asp Gln Ile Phe				
	245		250	255
Thr Asn Pro Arg His Pro Tyr Thr Gln Ala Leu Leu Ser Ala Thr Pro				
	260		265	270
Arg Leu Asn Pro Asp Asp Arg Arg Glu Arg Ile Lys Leu Thr Gly Glu				
	275		280	285
Leu Pro Ser Pro Leu Asn Pro Pro Pro Gly Cys Ala Phe Asn Ala Arg				
	290		295	300
Cys Arg Arg Arg Phe Gly Pro Cys Thr Gln Leu Gln Pro Gln Leu Lys				
305		310		315
Asp Tyr Gly Gly Gln Leu Val Ala Cys Phe Ala Val Asp Gln Asp Glu				
	325		330	335
Asn Gly Glu Lys Pro His Ala				
	340			

<210> 6248

<211> 76

<212> PRT

<213> Enterobacter cloacae

<400> 6248

Gly Trp Cys Tyr Lys Pro Phe Glu Asp Leu Ile Gln Pro Ala Arg Ala		
1	5	10
Thr Asp Asp His Asn Lys Arg Ile Glu Leu Tyr Lys Gln Ala Gln Val		
	20	25
Val Met His Asp Gln Ala Pro Ala Leu Ile Val Ala His Ser Thr Val		
	35	40
Tyr Glu Pro Val Arg Lys Glu Val Lys Gly Tyr Val Val Asp Pro Leu		
	50	55
Gly Lys His His Phe Glu Asn Val Ser Val Glu		
65	70	75

<210> 6249

<211> 334

<212> PRT

<213> Enterobacter cloacae

<400> 6249

Ser Ser Lys Arg His Glu Met Ala Leu Leu Asn Val Asn Lys Leu Ser		
1	5	10
Val His Phe Gly Asp Glu Gly Thr Pro Phe Arg Ala Val Asp Arg Ile		
	20	25
Ser Tyr Ser Val Asn Gln Gly Glu Val Val Gly Ile Val Gly Glu Ser		
	35	40
Gly Ser Gly Lys Ser Val Ser Ser Leu Ala Ile Met Gly Leu Ile Asp		
	50	55
Tyr Pro Gly Arg Val Met Ala Glu Asn Leu Glu Phe Asn Gly Gln Asp		
65	70	75

Leu Lys Arg Ile Ser Glu Lys Gln Arg Arg Gln Leu Val Gly Ala Glu
 85 90 95
 Val Ala Met Ile Phe Gln Asp Pro Met Thr Ser Leu Asn Pro Cys Tyr
 100 105 110
 Thr Val Gly Phe Gln Ile Met Glu Ala Ile Lys Val His Gln Gly Gly
 115 120 125
 Asn Lys Lys Thr Arg Arg Gln Arg Ala Ile Asp Leu Leu Asn Gln Val
 130 135 140
 Gly Ile Pro Asp Pro Ala Ser Arg Leu Asp Val Tyr Pro His Gln Leu
 145 150 155 160
 Ser Gly Gly Met Ser Gln Arg Val Met Ile Ala Met Ala Ile Ala Cys
 165 170 175
 Arg Pro Lys Leu Leu Ile Ala Asp Glu Pro Thr Thr Ala Leu Asp Val
 180 185 190
 Thr Ile Gln Ala Gln Ile Ile Glu Leu Leu Leu Glu Leu Gln Gln Lys
 195 200 205
 Glu Asn Met Ala Leu Val Leu Ile Thr His Asp Leu Ala Leu Val Ala
 210 215 220
 Glu Ala Ala His Lys Ile Ile Val Met Tyr Ala Gly Gln Val Val Glu
 225 230 235 240
 Thr Gly Ser Ser His Asp Ile Phe Arg Ala Pro Arg His Pro Tyr Thr
 245 250 255
 Gln Ala Leu Leu Arg Ala Leu Pro Glu Phe Ala Gln Asp Lys Ala Arg
 260 265 270
 Leu Ala Ser Leu Pro Gly Val Val Pro Gly Lys Tyr Asp Arg Pro Gln
 275 280 285
 Gly Cys Leu Leu Asn Pro Arg Cys Pro Tyr Ala Thr Asp Lys Cys Arg
 290 295 300
 Ala Glu Glu Pro Glu Leu Asn Leu Leu Ala Asp Gly Arg Gln Ser Lys
 305 310 315 320
 Cys His Tyr Pro Leu Asp Asp Ala Gly Arg Pro Thr Leu
 325 330

<210> 6250

<211> 407

<212> PRT

<213> Enterobacter cloacae

<400> 6250

Gln Ser Ser Thr Ile Val Met Ser Phe Cys Thr Glu Val Val Met Lys
 1 5 10 15
 Asp Val Val Ile Val Gly Ala Leu Arg Thr Ala Ile Gly Cys Phe Gln
 20 25 30
 Gly Ala Leu Ala Arg His Ser Ala Val Asp Leu Gly Ser Val Val Val
 35 40 45
 Arg Ala Leu Val Glu Arg Ser Gly Ile Ala Ala His Glu Ile Asp Glu
 50 55 60
 Val Ile Leu Gly Gln Val Leu Thr Ala Gly Ala Gly Gln Asn Pro Ala
 65 70 75 80
 Arg Gln Ala Ala Leu Lys Gly Gly Leu Pro Asn Thr Val Ser Ala Ile
 85 90 95
 Thr Ile Asn Asp Val Cys Gly Ser Gly Leu Lys Ala Leu His Leu Ala
 100 105 110
 Thr Gln Ala Ile Gln Cys Gly Glu Ala Asp Val Val Ile Ala Gly Gly
 115 120 125
 Gln Glu Asn Met Ser Arg Ala Pro His Val Leu Thr Asp Ser Arg Thr
 130 135 140
 Gly Ala Gln Leu Gly Asn Ser Gln Leu Leu Asp Ser Leu Val His Asp
 145 150 155 160
 Gly Leu Trp Asp Ala Phe Asn Asp Tyr His Met Gly Val Thr Ala Glu
 165 170 175

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Asn Leu Ala Arg Glu Tyr Gly Ile Ser Arg Glu Leu Gln Asp Ala Tyr
    180                      185                      190
Ala Leu Ser Ser Gln Gln Lys Ala Arg Ala Ala Ile Asp Ser Gly Arg
    195                      200                      205
Phe Arg Asp Glu Ile Val Pro Val Ser Thr Gln Arg Gln Asn Gly Glu
    210                      215                      220
Ala Leu Ile Val Asp Thr Asp Glu Gln Pro Arg Thr Asp Ala Ser Ala
    225                      230                      235                      240
Glu Gly Leu Ala Lys Leu Asp Pro Ala Phe Glu Thr Leu Gly Ser Val
    245                      250                      255
Thr Ala Gly Asn Ala Ser Ser Ile Asn Asp Gly Ala Ala Ala Val Met
    260                      265                      270
Met Met Ser Glu Ser Lys Ala Gln Glu Leu Ala Leu Pro Val Leu Ala
    275                      280                      285
Arg Ile Lys Ala Phe Ala Ser Val Gly Val Asp Pro Ala Leu Met Gly
    290                      295                      300
Ile Ala Pro Val Tyr Ala Thr Arg Arg Cys Leu Glu Arg Ala Gly Trp
    305                      310                      315                      320
Glu Leu Ser Asp Val Asp Leu Ile Glu Val Asn Glu Ala Phe Ala Ala
    325                      330                      335
Gln Ala Ile Ser Val Gly Lys Met Leu Glu Trp Asp Pro Leu Arg Val
    340                      345                      350
Asn Val Asn Gly Gly Ala Ile Ala Leu Gly His Pro Ile Gly Ala Ser
    355                      360                      365
Gly Cys Arg Ile Leu Val Ser Leu Val His Glu Met Lys Lys Arg Asn
    370                      375                      380
Ala Arg Lys Gly Ile Ala Thr Leu Cys Ile Gly Gly Gly Gln Gly Val
    385                      390                      395                      400
Ala Leu Ala Ile Glu Arg
    405

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<210> 6251

<211> 239

<212> PRT

<213> Enterobacter cloacae

<400> 6251

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Lys Arg Asn Val Ile Leu Ile Glu Gly Phe Phe Met Phe Lys Lys Ser
1      5      10
Leu Leu Leu Ala Ser Leu Ile Ser Ala Ser Phe Ala Ala Ser Ala Val
    20      25      30
Thr Val Asp Leu Arg His Glu Tyr Ile Asp Ser Gly Ser Asn Ala Asp
    35      40      45
Arg Val Ala Val Ser His Arg Phe Asp Asn Gly Phe Gly Phe Ser Val
    50      55      60
Glu Ala Lys Trp Lys Ser Gly Gly Asp Lys Ala Asp Gln Pro Phe Ala
    65      70      75      80
Asp Val Val Gly Asn Gly His Glu Asp Gln Ile Ser Trp Arg Trp Lys
    85      90      95
Ala Thr Asp Asn Ile Ala Leu Thr Pro Ala Phe Thr Ile Glu Ser Thr
    100     105     110
Asp Ser Arg Thr Ile Tyr Lys Pro Asn Leu His Val Gln Tyr Ser Phe
    115     120     125
Asp Asn Gly Phe Tyr Val Ala Ala Arg Tyr Arg Tyr Glu Tyr Thr Arg
    130     135     140
Tyr Pro Ser Ser Ser Asn Lys Asp Asp Asp Lys Val Asn Arg Gly Asp
    145     150     155     160
Ala Trp Val Gly Trp Val Leu Gly Asp Trp Arg Thr Glu Leu Asn Tyr
    165     170     175
Val Tyr Ala Lys Ser Ser Glu Gly Val Ala Arg Asn Asn Asn Lys Asp
    180     185     190

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Tyr Ser Asn Glu Tyr Asn Ala Lys Leu Ala Tyr Lys Trp Asp Lys Asn
 195 200 205
 Trp Ala Pro Tyr Val Glu Val Gly Asn Val Gly Val Lys Asp Thr Asp
 210 215 220
 Glu Arg Gln Thr Arg Phe Arg Leu Gly Val Ala Tyr Ser Phe
 225 230 235

<210> 6252

<211> 109

<212> PRT

<213> Enterobacter cloacae

<400> 6252

Ser Arg Tyr Ile Met Arg Tyr Ser Pro Glu Ala Leu Thr Ala Phe Val
 1 5 10 15
 Glu Thr Val Ala Ala Gly Ser Phe Ser Ala Ala Ala Arg Arg Leu Arg
 20 25 30
 Lys Ser Gln Ser Thr Ile Ser Thr Ser Ile Ala Asn Leu Glu Ala Asp
 35 40 45
 Leu Gly Phe Glu Leu Phe Asp Arg Ser Ala Arg His Pro Val Leu Thr
 50 55 60
 Ala Gln Gly Glu Gln Val Leu Gly Tyr Val Gln Ser Ile Leu Ala Ala
 65 70 75 80
 Ser Ala Arg Leu Asp Glu Leu Ala Val Ser Leu Thr Ala Gln Lys Glu
 85 90 95
 Gly Pro Val Leu Thr Phe Val Leu Ser Asp Thr Leu
 100 105

<210> 6253

<211> 185

<212> PRT

<213> Enterobacter cloacae

<400> 6253

Pro Ala Val Leu Glu Gln Met Met Ser Lys Phe Asp Gln Arg Phe Pro
 1 5 10 15
 His Thr Glu Phe Glu Cys Leu Ile Gly Glu Glu Glu Asp Val Ile Asp
 20 25 30
 Leu Leu Gln Lys Glu Arg Ala Gln Ile Gly Leu Thr Glu Ala Arg Asp
 35 40 45
 Ser Tyr Pro Thr Asp Ile Gly Ala Thr Arg Leu Pro Met Gln Thr Arg
 50 55 60
 Met Ala Ile Tyr Val Ser Ala Gly His Pro Leu Ala Gly Gln His Glu
 65 70 75 80
 Thr Gln Ala Asp Glu Leu His Gly Trp Arg Glu Leu Arg Leu Ser Thr
 85 90 95
 Tyr Leu Glu Arg Glu Ala Pro Leu Ala Arg Gly Pro Val Trp Ser Ala
 100 105 110
 Pro Asn Tyr Leu Leu Leu Leu Ser Met Ala Val Gln Gly Phe Gly Trp
 115 120 125
 Cys Ala Leu Pro Cys Ala Leu Val Asp Glu Phe Ala Ala Ser Lys Ser
 130 135 140
 Leu Val Gln Leu Asn Val Pro Gly Trp Pro Arg Ser Ile Ala Ile Asp
 145 150 155 160
 Leu Val Trp Asn Lys Arg Thr Pro Pro Gly Val Ala Gly Ser Trp Leu
 165 170 175
 Arg Gln Tyr Leu Gln Asp Ala Arg
 180 185

<210> 6254

<211> 92

<212> PRT

<213> Enterobacter cloacae

<400> 6254

Tyr	Val	Ala	Leu	Met	Ser	Lys	Ile	Trp	Ser	Lys	Glu	Glu	Thr	Leu	Trp
1				5					10					15	
Ser	Phe	Ala	Leu	Tyr	Gly	Thr	Ala	Val	Gly	Ala	Gly	Thr	Leu	Phe	Leu
			20					25					30		
Pro	Ile	Gln	Leu	Gly	Ser	Ala	Gly	Ala	Ile	Val	Leu	Leu	Ile	Thr	Ala
		35					40						45		
Leu	Val	Ala	Tyr	Pro	Leu	Thr	Tyr	Trp	Pro	His	Lys	Ala	Leu	Ala	Gln
	50					55					60				
Phe	Ile	Leu	Ser	Ser	Lys	Thr	Lys	Gly	Asn	Ala	Gly	Ile	Thr	Ser	Ser
65					70					75					80
Pro	Ala	Gly	Ala	Gly	Arg	Ile	Gln	Arg	Asn	Ala	Tyr				
				85					90						

<210> 6255

<211> 476

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (238)

<400> 6255

Pro	Val	Thr	Leu	Thr	Thr	Leu	Asn	Thr	Leu	Ser	Gly	Lys	Thr	Arg	Arg
1				5					10					15	
Phe	Asp	Met	Ala	Tyr	Gln	Thr	Val	Asn	Pro	Ala	Thr	Asn	Gln	Leu	Ile
			20					25					30		
Lys	Glu	Tyr	Pro	Ser	His	Thr	Asp	Ala	Asp	Val	Glu	Ala	Ala	Leu	Lys
		35					40					45			
Ala	Ala	Asp	Ala	Leu	Tyr	His	Ser	Glu	Trp	Ala	Lys	Gly	Asp	Ile	Ser
	50					55					60				
Gln	Arg	Leu	Pro	Val	Leu	His	Lys	Leu	Ala	Asp	Leu	Ile	Asp	Glu	Arg
65					70					75					80
Val	Glu	Asp	Leu	Ala	Lys	Ile	Ala	Ser	Gln	Glu	Met	Gly	Lys	Leu	Ile
				85					90					95	
Glu	Gln	Ser	Arg	Gly	Glu	Val	Lys	Leu	Cys	Ala	Gln	Ile	Ala	Arg	Tyr
			100					105					110		
Tyr	Ala	Asp	Asn	Ala	Lys	Gln	Phe	Leu	Ala	Pro	Val	Lys	Tyr	Asp	Ser
		115					120					125			
Glu	Leu	Gly	Glu	Ala	Trp	Val	Glu	His	His	Pro	Ile	Gly	Val	Leu	Met
	130					135					140				
Ala	Val	Glu	Pro	Trp	Asn	Phe	Pro	Tyr	Tyr	Gln	Leu	Met	Arg	Val	Leu
145					150					155					160
Ala	Pro	Asn	Leu	Ala	Ala	Gly	Asn	Pro	Val	Ile	Ala	Lys	His	Ala	Ser
				165					170					175	
Ile	Val	Pro	His	Cys	Ala	Glu	Thr	Phe	Ala	Gln	Leu	Val	Arg	Glu	Ser
			180					185					190		
Gly	Arg	Pro	Arg	Lys	Gly	Ala	Trp	Thr	Asn	Leu	Phe	Ile	Ser	Ser	Glu
		195					200					205			
Gln	Val	Ala	Asn	Ile	Ile	Ala	Asp	Asp	Arg	Val	Gln	Gly	Ala	Ala	Leu
	210					215					220				
Thr	Gly	Ser	Glu	Lys	Pro	Gly	Ser	Val	Val	Ala	Ala	Gln	Xaa	Ala	Lys
225					230					235					240
His	Ile	Lys	Lys	Ser	Thr	Leu	Glu	Leu	Gly	Gly	Asn	Asp	Val	Phe	Val
				245					250					255	
Val	Leu	Asp	Asp	Ala	Glu	Leu	Glu	Lys	Ala	Val	Lys	Ile	Gly	Val	Asn
			260					265					270		

Ala Arg Leu Asn Asn Ala Gly Gln Val Cys Thr Ala Ala Lys Arg Phe
 275 280 285
 Ile Leu His Glu Lys Ile Ala Asp Ala Phe Leu Ser Lys Phe Thr Glu
 290 295 300
 Ala Phe Lys Gln Val Lys Ile Gly Asp Pro Leu Asp Glu Ser Thr Thr
 305 310 315 320
 Leu Gly Pro Leu Ser Ser Lys Asp Ala Leu Glu Thr Leu Thr Lys Gln
 325 330 335
 Val Asn Glu Ala Val Lys Asn Gly Ala Lys Leu His His Gly Gly Lys
 340 345 350
 Pro Val Gln Arg Asp Gly Ser Phe Phe Glu Pro Thr Ile Leu Thr Asn
 355 360 365
 Ile Ser Arg Asp Asn Pro Ala Tyr Phe Glu Glu Phe Phe Gly Pro Val
 370 375 380
 Ala Gln Ile Tyr Val Val Lys Asn Asp Asp Glu Ala Val Ala Leu Ala
 385 390 395 400
 Asn Asp Ser His Tyr Gly Leu Gly Gly Ala Val Phe Ser Gln Asn Ile
 405 410 415
 Glu Arg Ala Lys Lys Met Ala Ser Arg Ile Glu Thr Gly Met Val Tyr
 420 425 430
 Ile Asn Trp Leu Thr Asp Thr Ala Ala Glu Leu Pro Phe Gly Gly Val
 435 440 445
 Lys Arg Ser Gly Tyr Gly Arg Glu Leu Ser Asp Leu Gly Ile Lys Glu
 450 455 460
 Phe Val Asn Gln Lys Leu Val Val Val Arg Lys
 465 470 475

<210> 6256

<211> 621

<212> PRT

<213> Enterobacter cloacae

<400> 6256

Ile Gly Arg Arg Asn Met Ala Ile Ile Ile Pro Thr Val Ser Ser Cys
 1 5 10 15
 Ser Glu Lys Ile Thr Ala Gly Glu Lys Arg Leu Ala Arg Leu Leu Glu
 20 25 30
 Gly Gly Leu Ser Glu Gln Cys Thr Cys Trp Tyr Asp Thr Arg Met Gly
 35 40 45
 Asp Lys Asp Asp His Pro Asp Phe Val Ile Leu Ala Pro Asp Lys Gly
 50 55 60
 Leu Leu Phe Ile Glu Val Lys Asp Trp Tyr Ile Thr Lys Ile Lys Ser
 65 70 75 80
 Ala Asn Lys Thr His Ile Asn Tyr Glu Thr Lys Asn Gly Ile Glu Pro
 85 90 95
 Leu Lys Asn Pro Leu Glu Gln Val Arg Gln Tyr Thr Phe His Ile Ile
 100 105 110
 Asn Ser Leu Lys Lys Asp Pro Leu Leu Arg Gln Lys Gln Gly Asp His
 115 120 125
 Glu Gly Gly Phe Ile Met Pro Tyr Gly Tyr Gly Val Tyr Leu Ser Asn
 130 135 140
 Ile Thr Arg Ala Gln Leu Glu Lys Ser Phe Thr Pro Glu Glu Leu Asn
 145 150 155 160
 Glu Ile Leu Pro Ala Ser Gln Val Ile Cys Lys Asp Glu Leu Asn Glu
 165 170 175
 Phe Met Thr Arg Glu Gln Ile Ser Gly Arg Leu Glu Ser Leu Leu Lys
 180 185 190
 His His Phe Val His Asn Thr Thr Pro Gln Gln Leu Asp Arg Ile Arg
 195 200 205
 Trp His Leu Tyr Pro Asp Val Arg Ile Asn Pro Ser Val Thr Arg Val
 210 215 220

Gly Leu Asp Asn Phe Thr Phe His Thr Pro Asp Val Val Cys Met Met
 225 230 235 240
 Asp Arg Asn Gln Glu Gln Leu Ala Arg Ser Met Gly Ala Gly His Arg
 245 250 255
 Val Ile His Gly Val Ala Gly Ser Gly Lys Thr Leu Ile Leu His His
 260 265 270
 Arg Cys Ile Glu Leu Ala Asn Asn Ile Glu Asn Thr Lys Pro Ile Leu
 275 280 285
 Val Ile Cys Tyr Asn Ile Thr Leu Ala Lys Lys Leu Lys Ala Gln Leu
 290 295 300
 Glu Gln His Ser Leu Arg Leu Pro Val Glu Val Ile His Phe His Ala
 305 310 315 320
 Trp Cys Tyr Gln Gln Leu Asn Ala His Arg Arg Leu Pro Pro Arg Ser
 325 330 335
 Lys Asn Phe Ile Glu Leu Met Glu Asn Ala Leu Thr Val Ala Phe Glu
 340 345 350
 Glu Gly Ala Ile Thr Pro Glu Gln Tyr Ser Ala Val Leu Ile Asp Glu
 355 360 365
 Gly His Asp Phe Lys Pro Glu Trp Leu Arg Ile Leu Ala Lys Met Pro
 370 375 380
 Asp Asn Lys Asp Ser Ser Leu Leu Phe Leu Tyr Asp Asp Ala Gln Ser
 385 390 395 400
 Ile Tyr Gln Lys Lys Lys Ala Leu Asp Phe Thr Leu Ser Ser Val Asp
 405 410 415
 Ile Lys Ala Gln Gly Arg Thr Thr Ile Leu Asp Thr Asn Tyr Arg Asn
 420 425 430
 Thr Arg Gln Ile Leu His Phe Ala Ser Ser Val Pro Phe Asn Tyr Leu
 435 440 445
 Asn Asn His Ile Glu Ala Ser Leu Lys Tyr Gln Gln Pro Ala Ala Gly
 450 455 460
 Gly Leu Ser Gly Lys Tyr Pro Ala Leu Ala Ser Phe Asp Asn Gln Asp
 465 470 475 480
 Glu Glu Ile Thr Arg Val Leu Asp Trp Val Thr Glu Gln Arg Gln Glu
 485 490 495
 Gly Val Ala Trp Ser Glu Ile Ala Ile Leu Cys Pro Ser Thr Tyr Ser
 500 505 510
 Ile Ser Gly Met Leu Ala Pro Arg Leu Glu Ala Arg Lys Ile Pro Tyr
 515 520 525
 Gln Met Ile Val Ser Ser Asp Lys Lys His Trp Ser Pro Gln Asn
 530 535 540
 Asp Tyr Leu Cys Val Met Pro Leu Pro Ser Ser Lys Gly Leu Glu Phe
 545 550 555 560
 Asn Ser Val Ala Ile Met Asp Ala Ala Lys Glu Arg Asp Ser Glu Asp
 565 570 575
 Leu Ser Asp Asp Ile Lys Arg Leu Tyr Val Gly Ile Thr Arg Ala Arg
 580 585 590
 Gln Asn Leu Leu Val Thr Met His Gly Thr Gly Ser Leu Arg Asp His
 595 600 605
 Leu Val Glu Thr Trp Glu Lys Ser Val Lys Ser Ile
 610 615 620

<210> 6257

<211> 189

<212> PRT

<213> Enterobacter cloacae

<400> 6257

Phe Asp Asp Glu Glu Thr Arg Met Lys Lys Leu Asn Val Leu Ile Leu
 1 5 10 15
 Ser Ala Leu Thr Ala Val Ser Gly Ser Ala Leu Ala Met Gly Gly Ser
 20 25 30

Ile Glu Gln Gly Lys Asn Phe Thr Asn Leu Asn Val Glu Met Gly Lys
 35 40 45
 Ser Thr Ser Gly Leu Tyr Thr Glu Gly Asn Trp Leu Lys Asn Thr Asp
 50 55 60
 Asp Gly Thr Thr Thr Gly Gly Val Gly Ala Gly Tyr Asn Phe Glu Val
 65 70 75 80
 Gly Pro Val Met Leu Asn Ala Gly Ala Lys Ala Leu Tyr Val Gly Pro
 85 90 95
 Lys Lys Gly Asp Asn Gly Val Ala Phe Pro Val Gly Gly Gly Val Asn
 100 105 110
 Val Ala Leu Thr Asp Ser Ile Arg Val Phe Gly Glu Gly Tyr Val Ala
 115 120 125
 Pro Asp Gly Leu Asn Asn Ser Val Lys Asn Tyr Val Glu Ala Asn Gly
 130 135 140
 Gly Val Ser Trp Thr Pro Val Lys Pro Val Thr Leu Lys Val Gly Tyr
 145 150 155 160
 Arg His Val Ser Val Asp Gly Lys Asp Gly Arg Pro Asn His Thr Leu
 165 170 175
 Val Asp Gly Ala Tyr Phe Gly Gly Gly Val Ser Phe
 180 185

<210> 6258

<211> 74

<212> PRT

<213> Enterobacter cloacae

<400> 6258

Gly Ile Leu Gln Met Ala Lys Ile Lys Gly Gln Val Lys Trp Phe Asn
 1 5 10 15
 Glu Ser Lys Gly Phe Gly Phe Ile Thr Pro Ala Asp Gly Ser Lys Asp
 20 25 30
 Val Phe Val His Phe Ser Ala Ile Gln Gly Asn Gly Phe Lys Thr Leu
 35 40 45
 Ala Glu Gly Gln Asn Val Glu Phe Glu Ile Gln Asp Gly Gln Lys Gly
 50 55 60
 Pro Ala Ala Val Asn Val Thr Ala Ile
 65 70

<210> 6259

<211> 593

<212> PRT

<213> Enterobacter cloacae

<400> 6259

Ile Arg Ala Leu Ile Asn Ser Pro Gly Val Lys Val Lys Lys Lys Thr
 1 5 10 15
 Ile Thr Thr Thr Gly Asn Phe Thr Pro Ala Arg Phe Ala Leu Leu Cys
 20 25 30
 Leu Ala Ile Phe Cys Ser Leu Ala Phe Leu Leu Gly Arg Val Ala Trp
 35 40 45
 Leu Gln Ile Ile Lys Pro Asp Asn Leu Val Lys Gln Glu Asp Met Arg
 50 55 60
 Ser Leu Arg Glu Val Ala Ile Asp Ala Pro Arg Gly Met Ile Val Asp
 65 70 75 80
 Arg Glu Gly Arg Pro Leu Ala Val Ser Val Pro Val Gln Ala Val Trp
 85 90 95
 Ala Asp Pro Lys Thr Val Leu Glu Lys Gly Gly Ile Gly Tyr Asp Ser
 100 105 110
 Arg Trp Gln Ala Leu Ala Asn Ala Leu His Leu Ser Leu Ser Thr Leu
 115 120 125
 Ala Ser Arg Ile Asn Ser Asn Pro His Gly Arg Phe Ile Tyr Leu Ala

130	135	140
Arg Gln Val Asp Pro Ser	Gln Ala Lys Trp Ile	Asp Lys Leu Arg Leu
145	150	155
Pro Gly Ile Asn Leu Arg	Asp Glu Ser Arg Arg	Phe Tyr Pro Ala Gly
165	170	175
His Val Ala Ala Asn Leu	Ile Gly Phe Thr Asn	Ile Asp Gly Gln Gly
180	185	190
Ile Glu Gly Val Glu Lys	Ser Phe Asn Thr Gln	Leu Thr Gly Lys Ala
195	200	205
Gly Val Arg Leu Val Arg	Lys Asp Arg Tyr Gly	His Val Val Glu Asn
210	215	220
Leu Thr Glu Val Ala Pro	Val Pro Ala His Asn	Ile Gln Leu Ser Ile
225	230	235
Asp Glu Arg Leu Gln Thr	Ile Thr Glu Asp Ala	Leu Asp Asn Ala Val
245	250	255
Ala Trp Asn Lys Ala Glu	Ser Gly Ala Ser Val	Leu Ile Asn Ile Gln
260	265	270
Thr Gly Glu Ile Leu Ala	Met Ala Ser Phe Pro	Asp Phe Asn Pro Asn
275	280	285
Asn Arg Glu Gly Ala Thr	Leu Asp Asp Phe Arg	Asn Arg Ala Ile Ser
290	295	300
Asp Thr Phe Glu Pro Gly	Ser Thr Val Lys Pro	Leu Val Leu Met Thr
305	310	315
Ala Leu Gln Gln Gly Leu	Val Gln Pro Asp Ser	Val Ile Asp Thr His
325	330	335
Pro Tyr Thr Ile Asp Gly	His Arg Ile Arg Asp	Val Gly Tyr Tyr Pro
340	345	350
Glu Leu Thr Met Thr Gly	Ile Leu Gln Lys Ser	Ser Asp Thr Gly Val
355	360	365
Ser Arg Leu Ser Leu Ala	Met Pro Val Gln Arg	Leu Leu Asp Thr Tyr
370	375	380
Lys His Phe Gly Phe Gly	Glu Ser Thr Gly Leu	Gly Leu Thr Gly Glu
385	390	395
Ser Ala Gly Leu Leu Pro	Gln Arg Lys Phe Trp	Ser Gln Leu Asp Arg
405	410	415
Ala Thr Phe Ala Phe Gly	Tyr Gly Leu Met Val	Thr Pro Leu Gln Leu
420	425	430
Ala His Val Tyr Ala Thr	Ile Gly Ser Tyr Gly	Ile Glu Arg Pro Leu
435	440	445
Ser Ile Thr Arg Ile Asp	Pro Pro Val Ile Gly	Lys Arg Val Met Pro
450	455	460
Glu Glu Ile Val His Glu	Val Glu His Met Met	Glu Ser Val Ala Leu
465	470	475
Pro Gly Gly Gly Gly Ile	Lys Ala Ala Val Arg	Asn Tyr Arg Val Ala
485	490	495
Ile Lys Thr Gly Thr Ala	Lys Lys Ile Asp Glu	His Gly Lys Tyr Val
500	505	510
Asp Lys Tyr Val Ala Tyr	Thr Ala Gly Val Ala	Pro Ala Ser Asp Pro
515	520	525
Arg Phe Ala Leu Val Val	Val Ile Asn Asp Pro	Gln Asn Gly Ala Tyr
530	535	540
Tyr Gly Gly Ala Val Ser	Ala Pro Val Phe Ser	Glu Ile Met Gly Asn
545	550	555
Val Leu Arg Leu Glu Asn	Val Lys Pro Asp Gly	Leu Pro Ala Asp Ser
565	570	575
Asp His Leu Ile Val Met	His His Pro Ala Val	Tyr Asn Pro Gly Glu
580	585	590

<211> 285

<212> PRT

<213> Enterobacter cloacae

<400> 6260

Arg	Tyr	Thr	Ser	Pro	Phe	Gly	Leu	Arg	Pro	Gly	Ala	Val	Met	Ser	Phe
1				5					10					15	
Ser	Cys	Pro	Leu	Cys	His	Ala	Pro	Leu	Thr	Arg	Ala	Glu	Lys	Thr	Phe
			20					25					30		
Ile	Cys	Pro	Gln	Gly	His	Gln	Phe	Asp	Arg	Ala	Lys	Glu	Gly	Tyr	Val
		35					40					45			
Asn	Leu	Leu	Pro	Val	Gln	His	Lys	Arg	Ser	Arg	Asp	Pro	Gly	Asp	Ser
	50					55					60				
Ala	Glu	Met	Met	Gln	Ala	Arg	Arg	Ala	Phe	Leu	Asp	Ala	Gly	His	Tyr
65					70				75						80
Gln	Pro	Leu	Arg	Asp	Ala	Val	Val	Ala	Leu	Leu	Arg	Glu	Tyr	Leu	Thr
				85					90					95	
Glu	Gly	Ala	Ser	Ala	Met	Leu	Asp	Ile	Gly	Cys	Gly	Glu	Gly	Tyr	Tyr
			100					105					110		
Thr	Ala	Thr	Phe	Ala	Asp	Val	Ala	Ala	Glu	Lys	Gly	Ala	Glu	Thr	Tyr
		115					120					125			
Gly	Leu	Asp	Val	Ser	Lys	Val	Ala	Ile	Arg	Ala	Ala	Ala	Lys	Arg	Tyr
	130					135					140				
Ser	Ala	Val	Thr	Phe	Cys	Val	Ala	Ser	Ser	His	Arg	Leu	Pro	Phe	Glu
145					150					155					160
Glu	Ala	Ser	Met	Asp	Ala	Val	Val	Arg	Ile	Tyr	Ala	Pro	Cys	Lys	Ala
				165					170					175	
Glu	Glu	Leu	Ala	Arg	Val	Val	Lys	Pro	Gly	Gly	Trp	Val	Ile	Thr	Val
		180						185					190		
Thr	Pro	Gly	Pro	Arg	His	Leu	Leu	Glu	Leu	Lys	Gly	Leu	Ile	Tyr	Asp
		195					200					205			
Glu	Val	His	Leu	His	Ala	Pro	His	Ser	Glu	Gln	Leu	Ala	Gly	Phe	Ala
	210					215					220				
Leu	Lys	Gln	Ala	Gln	Ser	Val	Ala	Tyr	Glu	Met	Thr	Leu	Gln	Gly	Ser
225					230					235					240
Glu	Ala	Val	Ala	Leu	Leu	Gln	Met	Thr	Pro	Phe	Ala	Trp	Arg	Ala	Lys
				245					250					255	
Pro	Glu	Val	Trp	Glu	Thr	Leu	Ala	Ala	Gln	Thr	Glu	Phe	Arg	Cys	Gln
			260					265					270		
Thr	Asp	Phe	Ser	Ile	His	Cys	Trp	Gln	Arg	Glu	Gly				
	275						280					285			

<210> 6261

<211> 141

<212> PRT

<213> Enterobacter cloacae

<400> 6261

Asn	Ser	Ile	Pro	Arg	Pro	Arg	Leu	Arg	Leu	Leu	Phe	Asn	Ala	Val	Arg
1				5					10					15	
Leu	Leu	Thr	Arg	Tyr	Tyr	Gly	Val	Ala	Tyr	Gly	Tyr	Arg	Lys	Gly	Val
			20					25					30		
Asp	Ile	Val	Lys	Asp	Met	Gly	Gly	Gly	Phe	Leu	Gln	Lys	Leu	Thr	Glu
		35					40				45				
Gly	Ala	Ser	Ile	Leu	Gly	Leu	Phe	Val	Met	Gly	Ala	Leu	Val	Asn	Lys
	50					55					60				
Trp	Thr	His	Val	Asn	Ile	Pro	Leu	Val	Val	Ser	Thr	Ile	Thr	Gly	Gln
65				70					75						80
Asp	Gly	Gln	Thr	Arg	Val	Thr	Thr	Val	Gln	Thr	Ile	Leu	Asp	Gln	Leu
				85					90					95	
Met	Pro	Gly	Leu	Val	Pro	Leu	Leu	Leu	Thr	Phe	Ala	Cys	Met	Trp	Leu

			100					105				110			
Leu	Arg	Lys	Lys	Val	Asn	Pro	Leu	Trp	Ile	Ile	Val	Gly	Phe	Phe	Val
		115					120					125			
Ile	Gly	Ile	Ala	Gly	Tyr	Ala	Val	Gly	Leu	Leu	Gly	Leu			
	130					135					140				

<210> 6262

<211> 153

<212> PRT

<213> Enterobacter cloacae

<400> 6262

Met	Thr	Val	Thr	Asp	Thr	Val	Leu	Val	Leu	Phe	Ile	Val	Ala	Leu	Leu
1			5					10						15	
Ala	Tyr	Ala	Ile	Tyr	Asp	Glu	Phe	Ile	Met	Pro	Arg	Arg	His	Gly	Glu
		20					25						30		
Thr	Leu	Leu	Thr	Leu	Pro	Leu	Leu	Arg	Arg	Gly	Arg	Ile	Asp	Ala	Phe
	35					40						45			
Ile	Phe	Ala	Gly	Leu	Val	Val	Ile	Leu	Ile	Tyr	Asn	Asn	Val	Thr	Ser
	50				55						60				
His	Gly	Ala	Ile	Leu	Thr	Trp	Leu	Leu	Cys	Ala	Leu	Ala	Leu	Met	
65				70					75					80	
Ala	Ile	Tyr	Leu	Phe	Trp	Ile	Arg	Ser	Pro	Lys	Leu	Ile	Phe	Lys	Lys
			85					90						95	
His	Gly	Phe	Phe	Phe	Ala	Asn	Val	Trp	Ile	Glu	Tyr	Asn	Arg	Ile	Lys
			100				105						110		
Glu	Met	Asn	Leu	Ser	Glu	Asp	Gly	Val	Leu	Val	Met	Gln	Leu	Glu	Gln
	115					120						125			
Arg	Arg	Leu	Leu	Ile	Arg	Val	Arg	Asn	Ile	Asp	Asp	Leu	Glu	Lys	Ile
	130				135						140				
Tyr	Lys	Leu	Leu	Val	Lys	Thr	Gln								
145					150										

<210> 6263

<211> 258

<212> PRT

<213> Enterobacter cloacae

<400> 6263

Gly	Cys	Ala	Arg	Arg	Trp	Gly	Val	Ala	Asp	Phe	Leu	Pro	Ala	Gly	Asn
1			5					10						15	
Val	Arg	Val	Asn	Ile	Leu	Val	Glu	Lys	Arg	Gly	Ala	Tyr	Gly	Ser	Phe
		20					25						30		
Leu	Ser	Thr	Ile	Thr	Val	Pro	Glu	Ala	Ile	Arg	Arg	Asp	His	Arg	Tyr
	35					40						45			
Ile	Asn	Cys	Cys	Leu	Leu	Gly	Ala	Val	Met	Cys	His	Met	Asp	Ile	Pro
	50				55						60				
Gly	Leu	Asp	Ala	Leu	Met	Asn	Ile	Ser	Ala	Thr	Ile	Leu	Leu	Ala	Phe
65				70					75						80
Gly	Met	Ser	Met	Asp	Ala	Phe	Ala	Ala	Ser	Ile	Gly	Lys	Gly	Ala	Thr
			85					90						95	
Leu	His	Lys	Pro	Lys	Phe	Ser	Glu	Ala	Leu	Arg	Thr	Gly	Leu	Ile	Phe
			100				105						110		
Gly	Ala	Ile	Glu	Thr	Leu	Thr	Pro	Leu	Ile	Gly	Trp	Gly	Leu	Gly	Met
	115					120						125			
Leu	Ala	Ser	Gln	Phe	Val	Leu	Glu	Trp	Asn	His	Trp	Ile	Ala	Phe	Val
	130				135						140				
Leu	Leu	Val	Phe	Leu	Gly	Gly	Arg	Met	Val	Ile	Glu	Gly	Phe	Arg	Gly
145				150					155						160
Asn	Gly	Asp	Glu	Asp	Asp	Ala	Pro	Leu	Gln	Arg	His	Gly	Phe	Trp	Leu
			165						170						175

Leu Val Thr Thr Ala Ile Ala Thr Ser Leu Asp Ala Met Ala Val Gly
 180 185 190
 Val Gly Leu Ala Phe Leu Gln Val Asn Ile Ile Ala Thr Ala Leu Ala
 195 200 205
 Ile Gly Cys Ala Thr Leu Ile Met Ser Thr Leu Gly Met Met Val Gly
 210 215 220
 Arg Phe Ile Gly Pro Leu Leu Gly Lys Arg Ala Glu Ile Leu Gly Gly
 225 230 235 240
 Ile Val Leu Ile Gly Ile Gly Ala Gln Ile Leu Trp Ala His Phe Ala
 245 250 255
 Gly

<210> 6264

<211> 68

<212> PRT

<213> Enterobacter cloacae

<400> 6264

Phe Ser Arg Leu Glu Tyr Leu Pro Val Thr Gln Gly Val Ala Gly Ser
 1 5 10 15
 Ser Pro Val Arg Ser Ala Asn Ile Gln Ala His Val Thr Cys Asn Val
 20 25 30
 Gly Leu Phe Val Phe Pro Leu Ser His Val Phe Leu Asn Phe Cys Ser
 35 40 45
 Gly Thr Ser Ala Glu Asn His Ile Tyr Thr Ile Leu Phe Phe Val Phe
 50 55 60
 Asn Gln Phe
 65

<210> 6265

<211> 1209

<212> PRT

<213> Enterobacter cloacae

<400> 6265

Ile Ser Pro Arg Thr Leu Ser Met Thr Glu Asn Lys Val Ile Leu Ala
 1 5 10 15
 Val Asn Asn Gly Asp Gly Lys Thr Arg Leu Leu Thr Ala Asp Ala Gly
 20 25 30
 Arg Thr Val Lys Val Lys Leu Ile Pro Gly Asn Lys Tyr Leu Leu Lys
 35 40 45
 Asn Val Asn Asp Asp Phe Ala Pro Glu Asn Ile Thr Leu Gln Arg Val
 50 55 60
 Gly Lys Ala Leu His Ile Ile Gln Glu Gly Asp Thr Gln Pro Ser Ile
 65 70 75 80
 Ile Ile Glu Asn Tyr Phe Asp Gly Asp Ser Lys Asn Pro Thr Leu Met
 85 90 95
 Gly Met Ala Glu Asp Gly Leu Leu Tyr Ala Tyr Ile Pro Leu Ser Gly
 100 105 110
 Glu Ser Tyr Asp Asn Gly Tyr Leu Met Ala Glu Gly Gly Leu Ala Pro
 115 120 125
 Val Ala Leu Gly Gly Glu Pro Leu Gly Ala Gly Gly Pro Leu Leu Ser
 130 135 140
 Ala Pro Asp Asp Glu Asn Asp Met Leu Phe Gly Met Leu Gly Trp Phe
 145 150 155 160
 Ala Leu Ala Ala Ala Gly Val Gly Ala Ala Phe Ala Leu Ser Glu Leu
 165 170 175
 Asp Lys Asp Glu Ser Asp Ser Gln Pro Ala Pro Glu Lys Pro Ser Ile
 180 185 190
 Gly Lys Ala Val Asp Asp Glu Gly Ser Ile Lys Gly Pro Leu Lys Ser

		195					200				205				
Gly	Asp	Val	Thr	Asp	Asp	Ser	Thr	Pro	Ser	Leu	Ile	Gly	Lys	Gly	Lys
	210					215					220				
Pro	Gly	Asp	Thr	Ile	His	Ile	Ile	Asp	Asn	Asp	Lys	Glu	Ile	Gly	Ser
225					230					235					240
Val	Ile	Val	Asp	Asp	Glu	Gly	Glu	Trp	Ser	Tyr	Thr	Pro	Asp	Lys	Pro
				245					250					255	
Leu	Gly	Glu	Gly	Glu	His	Asp	Leu	Ser	Val	Val	Val	Glu	Asp	Pro	Asp
			260					265					270		
Gly	Asn	Met	Ser	Pro	Pro	Ser	Asp	Pro	Ile	Thr	Ile	Val	Val	Asp	Thr
	275						280					285			
Val	Ala	Pro	Asp	Ala	Pro	Thr	Ile	Glu	His	Ile	Met	Asp	Lys	Val	Gly
	290					295					300				
Lys	Val	Thr	Gly	Glu	Ile	Leu	Glu	Asp	Ala	Tyr	Thr	Asp	Asp	Pro	Lys
305					310					315					320
Pro	Glu	Met	Ser	Gly	Thr	Gly	Glu	Ala	Gly	Ala	Thr	Ile	Thr	Ile	Tyr
				325					330					335	
Asp	Asn	Gly	Lys	Lys	Ile	Gly	Glu	Thr	Ser	Val	Asn	Asp	Asp	Gly	Arg
			340					345				350			
Trp	Tyr	Phe	Lys	Pro	Ser	Glu	Asn	Leu	Thr	Asp	Gly	Asn	His	Ser	Ile
	355						360					365			
Thr	Val	Ser	Gln	Thr	Asp	Lys	Ala	Gly	Asn	Val	Ser	Glu	Pro	Ser	Asp
	370					375					380				
Glu	Arg	Asp	Phe	Ile	Val	Leu	Thr	Glu	Pro	Pro	Gly	Lys	Ala	Glu	Thr
385					390					395					400
Pro	Ser	Val	Ile	Asp	Asp	Asn	Gly	Pro	Val	Thr	Gly	Pro	Leu	Lys	Pro
				405					410					415	
Gly	Asp	Val	Thr	Asp	Asp	Thr	Lys	Pro	Ser	Phe	Ser	Gly	Glu	Gly	Thr
			420					425				430			
Pro	Gly	Asn	Thr	Ile	Val	Ile	Lys	Asp	Asn	Asp	Lys	Glu	Ile	Gly	Ser
	435						440					445			
Val	Ile	Val	Asp	Asp	Glu	Gly	Lys	Trp	Thr	Tyr	Thr	Pro	Glu	Lys	Asp
	450					455					460				
Leu	Ser	Glu	Gly	Glu	His	Asn	Val	Glu	Val	Ile	Glu	Glu	Asp	Pro	Leu
465					470					475					480
Gly	Asn	Val	Gly	Gln	Pro	Ser	Asp	Pro	Ile	Gln	Ile	Ile	Val	Asp	Thr
				485					490					495	
Thr	Pro	Pro	Ala	Arg	Pro	Asp	Arg	Val	Tyr	Ala	Glu	Asp	Asn	Thr	Gly
			500					505					510		
Pro	Ile	Thr	Gly	Gln	Leu	Lys	Gly	Gly	Asp	Val	Thr	Asp	Glu	Thr	Arg
	515						520					525			
Pro	Val	Phe	Ser	Gly	Lys	Gly	Glu	Pro	Gly	Asp	Thr	Val	Thr	Ile	Tyr
	530					535				540					
Asp	Gly	Asp	Glu	Val	Leu	Gly	Ser	Thr	Val	Ile	Asp	Asp	Glu	Gly	Asn
545					550					555					560
Trp	Ser	Leu	Lys	Pro	Glu	Lys	Pro	Leu	Gly	Glu	Gly	Asp	His	Ser	Ile
				565					570					575	
Thr	Val	Thr	Gln	Thr	Asp	Lys	Ala	Gly	Asn	Thr	Ser	Asp	Pro	Ser	Glu
			580					585					590		
Ala	Leu	Glu	Phe	Glu	Val	Asp	Thr	Thr	Ala	Pro	Ala	Ala	Ser	Ala	Asp
	595						600					605			
Val	Leu	Lys	Ile	Thr	Ala	Val	Ala	Asp	Asp	Val	Gly	Asp	Arg	Gln	Gly
	610					615					620				
Asn	Val	Ala	Ser	Gly	Glu	Ile	Thr	Asp	Asp	Ser	Lys	Pro	Leu	Ile	Ser
625					630					635					640
Gly	Ile	Gly	Glu	Ala	Gly	Asn	Thr	Val	Tyr	Val	Tyr	Thr	Thr	Asp	Ala
				645					650					655	
Ser	Gly	Lys	His	Leu	Ile	Gly	Ser	Ala	Val	Val	Gly	Ser	Asp	Gly	Thr
			660					665					670		
Trp	Ser	Leu	Thr	Pro	Glu	Thr	Pro	Leu	Thr	Glu	Gly	Leu	Asn	Gln	Leu
	675						680					685			

Thr Leu Glu Thr Gln Asp Pro Ala Gly Asn Arg Val Ala Gly Asp Ala
 690 695 700
 Pro Ser Tyr Asp Ile Asn Leu Met Ile Pro Ile Ser Thr Gln Pro Ser
 705 710 715 720
 Ile Asn Ser Val Val Asp Asn Ser Glu Pro His Val Gly Pro Leu Gln
 725 730 735
 Lys Gly Asp Ala Thr Asn Asp Thr Thr Pro Thr Leu Ser Gly Ser Ala
 740 745 750
 Ala Pro Gly Asp Ile Val Ser Ile Leu Asp Asn Gly Lys Val Ile Gly
 755 760 765
 Ser Val Thr Ala Asp Ser Asn Gly Lys Trp Thr Phe Thr Pro Asp Ala
 770 775 780
 Ala Leu Ala Asp Gly Lys His Thr Phe Thr Val Thr Ala Thr Asp Ala
 785 790 795 800
 Ala Gly Asn Ser Arg Thr Ser Gly Ser Phe Pro Ile Val Ile Asp Thr
 805 810 815
 Ala Ala Pro Ser Pro Ala Glu Asn Ile Val Ile Asn Asp Asn Val Gly
 820 825 830
 Asp Lys Gln Gly Pro Val Gly Ser Gly Asp Thr Thr Asp Asp Gln Ser
 835 840 845
 Pro Thr Leu Ser Gly Glu Ala Glu Pro Gly Ser Val Val Asp Ile Tyr
 850 855 860
 Asp Asn Asp Glu Lys Ile Gly Ser Val Ile Val Asp Asp Glu Gly Lys
 865 870 875 880
 Trp Ser Tyr Thr Pro Asp Lys Pro Leu Asp Lys Gly Asp His Glu Ile
 885 890 895
 Thr Thr Thr Val Thr Asp Pro Ser Gly Asn Thr Ser Glu Pro Ser Pro
 900 905 910
 Gly Ile Ser Phe Thr Val Asp Pro Asp Pro Asn Gln Val Thr Val Gly
 915 920 925
 Glu Val Val Asp Asp Gln Gly Pro Ile Val Gly Asn Leu Lys Pro Gly
 930 935 940
 Thr Val Thr Asp Asp Val Arg Pro Glu Leu Ser Gly Lys Gly Lys Pro
 945 950 955 960
 Gly Ser Thr Val Thr Ile Lys Asp Gly Asp Asp Val Leu Gly Ser Thr
 965 970 975
 Val Val Asp Pro Asp Gly Asn Trp Thr Phe Thr Pro Glu Gln Asp Leu
 980 985 990
 Ala Asp Gly Asn His Ser Leu Thr Val Val Ser Lys Asp Pro Ala Gly
 995 1000 1005
 Asn Glu Val Thr Ser Pro Ser Phe Asp Ile Thr Val Asp Ala Thr Ala
 1010 1015 1020
 Pro Glu Lys Pro Val Leu Gly Ser Ala Thr Asp Asp Val Gly Thr Ile
 1025 1030 1035 1040
 Arg Gly Asp Leu Ser Asn Gly Ser Thr Thr Asp Asp Ala Asn Pro Thr
 1045 1050 1055
 Phe Asn Gly Ser Ala Glu Pro Gly Ile His Gln Leu Val Lys Arg Phe
 1060 1065 1070
 Gln Gly Arg Phe Gly Met Leu Ile Thr Gln Arg Gln Pro Asp Asn Gly
 1075 1080 1085
 Cys Gln Arg Gly Glu Arg Thr Ala Gly Lys Asp His Tyr Ala Asn His
 1090 1095 1100
 Gly Ala His Arg Glu Leu Ala Arg Val Asp Gln Ile His Thr Gln His
 1105 1110 1115 1120
 Asn Asn Thr Asp Arg Gly Asn Leu Leu Asn Glu Gly Asp Lys Ile Gly
 1125 1130 1135
 Ser Gln His Gly Lys Val Ala Gly Phe His Gly Gly Ser Gly Ser Gln
 1140 1145 1150
 Arg Ala Glu Ile Ile Pro Ala Leu Leu His Asn Ala Phe Thr Leu Arg
 1155 1160 1165
 Ser Phe Gln Gly Phe Lys Ser Leu Asn Ala Phe Asn Gln Gln Ala Leu

1170 1175 1180
 Leu Glu Arg Asn Leu Ala Asn Val Phe Phe His Ile Ala Thr Gln Arg
 1185 1190 1195 1200
 Pro Leu Asn Asn Asp Ala Gly Asn
 1205

<210> 6266
 <211> 190
 <212> PRT
 <213> Enterobacter cloacae

<400> 6266
 Asn Lys Cys Val Cys Pro Ser Phe Arg Thr Glu Gln Gln Gly Glu Cys
 1 5 10 15
 Asn Gly Ser Glu Phe Tyr Ile Trp Pro Glu Asn Asn Ser Phe Leu Ile
 20 25 30
 Glu Gly Ile Leu Gln Tyr Phe Asn Asn Ile Thr Val Lys Ile Ile Ser
 35 40 45
 Gln Pro Ile Val Val Ile Asp Phe Asn Tyr Lys Asn Ile Asn Phe Phe
 50 55 60
 Leu Thr Asn Ser Trp Leu Asp Arg Phe Lys Asn Ala Arg Leu Ile Leu
 65 70 75 80
 Ile Thr Asp Lys Lys Met Ala Ala Ile Ala His Tyr Trp Phe Tyr Asn
 85 90 95
 Asp Thr Ser Glu Thr Ile Ile Ser Thr Val Ile Phe His Asp Asp Ile
 100 105 110
 Ile Asp Asp Ile Lys Phe Lys Ile Arg Gln Ser Phe Leu Gly Lys Ile
 115 120 125
 Thr Arg Pro Ser Glu Lys Lys Ala Lys Leu Ser Ala Asn Glu Tyr Ala
 130 135 140
 Leu Phe Ser Glu Leu Tyr Lys Gly Gln Leu Pro Lys Lys Ile Ala Met
 145 150 155 160
 Lys Asn Ala Thr Asn Val Lys Asn Ile Tyr Ala Met Lys Ile Arg Ile
 165 170 175
 Glu Asn Lys Leu Gly Val Pro Ile Ser Arg Leu Ala Ser
 180 185 190

<210> 6267
 <211> 602
 <212> PRT
 <213> Enterobacter cloacae

<400> 6267
 Lys Asn Ile Asn Leu Asp Gln Ser Thr Tyr Asn Ile Leu Asn His Ala
 1 5 10 15
 Val Val Tyr Leu Tyr Cys Val His Ile Arg Leu Thr Leu His Tyr Asp
 20 25 30
 Ile Ala Ser Ala Cys Asn Phe Thr Ile Thr Ile Ser His Lys Leu Arg
 35 40 45
 Thr Tyr Gly Cys Ser Trp Ser Ile Leu Ile Ala Cys Leu His Phe Ile
 50 55 60
 Phe Lys Val Arg Asn Val Thr Thr Gly Leu Asp Ser Ile Met Asn Thr
 65 70 75 80
 His Leu Ser Thr Val Lys Phe Asn Ser Glu His Asp Phe Asn Asn Ile
 85 90 95
 Glu Glu Pro Arg Lys Asp Ser Leu Leu Trp Gly Val Glu Trp Leu Cys
 100 105 110
 Ala His His Ala Lys Tyr Ala Ser Lys Glu Val Leu Tyr Ala Gly Leu
 115 120 125
 Pro Lys Ser Asp Lys Leu Glu Pro Glu Met Ala Leu Arg Met Leu Asp
 130 135 140

Gln	Met	Gly	Ile	Ser	Ala	Gly	Trp	Val	Lys	Arg	Asp	Leu	Asn	Ser	Ile
145					150					155					160
Ser	Ser	Trp	Leu	Phe	Pro	Leu	Leu	Ile	Ala	Arg	Lys	Asp	Gly	Thr	Tyr
				165					170						175
Cys	Ile	Ile	Thr	Ala	Arg	Asn	Gly	Lys	Arg	Gly	Gln	Phe	Thr	Tyr	Gln
			180					185					190		
Ile	Val	Val	Pro	Glu	Asn	Glu	Gly	Ile	Leu	Thr	Val	Ser	Ala	Ala	Asp
		195					200					205			
Leu	Leu	Glu	Val	Tyr	Gly	Gly	Tyr	Ala	Leu	Val	Thr	Thr	Pro	Lys	Pro
	210					215					220				
Ser	Leu	Asp	Ala	Arg	Ala	Asp	Asp	Leu	Leu	Leu	Pro	Lys	Ala	Gln	Asn
225					230					235					240
Glu	Gly	His	Trp	Leu	Tyr	Ser	Thr	Leu	Trp	Arg	Tyr	Arg	His	Tyr	Phe
				245					250					255	
Tyr	Ser	Ala	Ala	Leu	Ala	Ala	Leu	Leu	Ala	Asn	Ile	Leu	Thr	Leu	Ala
		260					265						270		
Gly	Thr	Phe	Phe	Thr	Met	Asn	Val	Tyr	Asp	Arg	Val	Ile	Pro	Thr	Gln
		275					280					285			
Ala	Tyr	Val	Thr	Leu	Trp	Ser	Leu	Ala	Ile	Gly	Val	Val	Ile	Ala	Asn
	290					295				300					
Ile	Phe	Glu	Phe	Ser	Ser	Arg	Gln	Ile	Arg	Ala	Tyr	Leu	Ile	Asp	Ile
305					310					315					320
Ala	Gly	Lys	Lys	Ala	Asp	Leu	Ile	Leu	Gly	Ala	Lys	Leu	Phe	Arg	Gln
				325					330					335	
Val	Met	Ser	Met	Arg	Met	Glu	Tyr	Lys	Pro	Gln	Ser	Ser	Gly	Thr	Phe
			340					345					350		
Ala	Asn	Gln	Leu	Arg	Asp	Phe	Glu	Ala	Val	Arg	Asp	Phe	Ile	Thr	Ser
		355					360					365			
Ala	Thr	Leu	Ala	Thr	Leu	Ser	Asp	Leu	Pro	Phe	Cys	Val	Leu	Phe	Met
	370					375					380				
Phe	Ile	Ile	Tyr	Met	Ile	Gly	Gly	Pro	Leu	Ala	Val	Val	Pro	Leu	Val
385					390					395					400
Ala	Met	Pro	Leu	Ile	Leu	Ile	Ala	Ser	Ile	Val	Ile	Gln	Trp	Pro	Leu
				405					410					415	
Gly	Arg	Tyr	Met	Glu	Glu	Asn	Val	Arg	Glu	Ile	Ser	Leu	Lys	Gln	Gly
			420					425					430		
Leu	Leu	Ile	Glu	Ser	Ile	Glu	Gly	Leu	Glu	Ala	Leu	Lys	Ala	Ala	Gln
		435					440					445			
Gly	Glu	Gly	Val	Met	Gln	Lys	Arg	Trp	Asp	Asp	Phe	Ser	Ala	Leu	Ala
	450					455					460				
Ala	Ala	Ser	Ser	Met	Lys	Thr	Arg	Asn	Leu	Ser	Met	Leu	Thr	Thr	Asn
465					470					475					480
Phe	Val	Ser	Phe	Val	Gln	Gln	Ile	Thr	Thr	Val	Cys	Ile	Val	Val	Leu
				485					490					495	
Gly	Val	Tyr	Leu	Ile	His	Ala	Gly	Glu	Leu	Thr	Met	Gly	Ala	Met	Ile
			500					505					510		
Gly	Val	Val	Ile	Leu	Ser	Ser	Arg	Ser	Leu	Ala	Pro	Leu	Ala	Ser	Val
		515					520					525			
Val	Gly	Leu	Ala	Leu	Arg	Tyr	Gln	His	Ala	Lys	Thr	Ala	Leu	Lys	Ser
	530					535					540				
Leu	Asn	Gln	Leu	Met	Asp	Ala	Arg	Leu	Cys	Arg	Ala	Val	Glu	Gly	Trp
545					550					555					560
Val	Cys	Val	Val	Gly	Gly	Ala	Ala	Val	Ala	Gln	Ile	Ala	Ala	Asn	Ser
				565					570					575	
Ala	His	Val	Ile	Arg	Cys	Gly	Ser	Gln	His	Arg	Phe	Phe	Arg	Arg	Gly
			580					585					590		
Arg	Ile	Asp	Gly	Asp	Ile	Glu	Gly	Arg							
		595					600								

<210> 6268

<211> 330

<212> PRT

<213> Enterobacter cloacae

<400> 6268

Lys Thr Ala Ala Leu Pro Gly Ala Gln Gly Gly Arg Met Ser Ala Phe
 1 5 10 15
 Ala Arg Arg Leu Glu Thr Leu His Ala Thr Arg Pro Val Thr Val Leu
 20 25 30
 Gly Ala Ala Val Ile Asp Val Ile Ala Asp Ala Tyr Ala Leu Pro Trp
 35 40 45
 Arg Gly Cys Asp Ile Glu Leu Lys Gln Gln Gly Val Asn Ile Gly Gly
 50 55 60
 Cys Ala Leu Asn Ile Ala Ile Ala Leu Lys Arg Leu Gly Ile Ala Ala
 65 70 75 80
 Gln Asn Ala Leu Pro Val Gly His Gly Val Trp Ala Asp Ile Ile Arg
 85 90 95
 Asn Ala Met Ala Lys Gln Asp Leu His Ser Ala Val Glu Ala Glu Thr
 100 105 110
 Gly Asp Asn Gly Trp Cys Leu Ala Leu Val Glu Pro Asp Gly Glu Arg
 115 120 125
 Thr Phe Met Ser Phe Ser Gly Val Glu Asn Gln Trp Gln Gln Arg Trp
 130 135 140
 Leu Asp Gly Leu Ser Val Pro Ala Gly Ser Leu Ile Ser Leu Ser Gly
 145 150 155 160
 Tyr Gln Leu Ala Ser Pro Ser Gly Glu Leu Leu Thr Ala Trp Leu Glu
 165 170 175
 Ser Leu Gln Asp Ala Thr Leu Phe Ile Asp Phe Gly Pro Arg Ile Ala
 180 185 190
 Asp Ile Pro Asp Pro Leu Met Ala Arg Ile Met Ala Cys Lys Pro Ile
 195 200 205
 Val Ser Leu Asn Arg Gln Glu Ala Glu Leu Ala Ala Glu Trp Leu Gly
 210 215 220
 Val Ser Val Glu Glu Leu Gly Thr Arg Trp Gln Gln Arg Phe Gly Ala
 225 230 235 240
 Ala Leu Ile Ile Arg His Asp Lys Asp Gly Ala Val Trp Tyr Asp Gly
 245 250 255
 Asp Ala Ser Gly His Val Pro Ala Phe Pro Ala Thr Val Val Asp Thr
 260 265 270
 Ile Gly Ala Gly Asp Ser His Ala Gly Gly Thr Leu Ala Gly Leu Ala
 275 280 285
 Ala Gly Trp Ser Leu Pro Glu Ala Val Gln Leu Gly Asn Ala Val Ala
 290 295 300
 Ala Trp Val Val Ser His Arg Gly Gly Asp Cys Ala Pro Thr Arg Glu
 305 310 315 320
 Ala Leu Leu Leu Ala His Lys Asp Val
 325 330

<210> 6269

<211> 335

<212> PRT

<213> Enterobacter cloacae

<400> 6269

Met Lys Gln Asp Arg Ile Leu Gly Ala Leu Tyr Gly Gln Ala Leu Gly
 1 5 10 15
 Asp Ala Met Gly Met Pro Ser Glu Leu Trp Pro Arg Lys Arg Val Lys
 20 25 30
 Ala His Phe Gly Trp Ile Asp Arg Phe Leu Pro Gly Pro Ala Glu Asn
 35 40 45
 Asn Ala Ala Cys Tyr Phe Lys Gln Ala Glu Phe Thr Asp Asp Thr Ser
 50 55 60

02/18/19
JCS30 U.S. PRO
09/25/2019

Met	Ala	Leu	Cys	Leu	Ala	Asp	Ala	Ile	Ile	Glu	Cys	Glu	Gly	Glu	Ile
65				70						75					80
Asn	Pro	Asp	Val	Ile	Gly	Lys	His	Ile	Leu	Asp	Trp	Ala	Leu	Asp	Phe
			85						90					95	
Asp	Ala	Phe	Asn	Lys	Asn	Val	Leu	Gly	Pro	Thr	Ser	Lys	Ile	Ala	Leu
			100					105					110		
Asn	Ala	Ile	Arg	Asp	Gly	Lys	Pro	Val	Ser	Gln	Leu	Glu	Asn	Asn	Gly
		115					120					125			
Val	Thr	Asn	Gly	Ala	Ala	Met	Arg	Ala	Ser	Pro	Leu	Gly	Cys	Leu	Leu
		130				135					140				
Pro	Ala	Thr	Arg	Leu	Ala	His	Phe	Val	Glu	Gln	Val	Ala	Leu	Ala	Ser
145				150						155					160
Ser	Pro	Thr	His	Lys	Ser	Asp	Leu	Ala	Ile	Ala	Gly	Ala	Val	Val	Ile
			165						170					175	
Ala	Trp	Ala	Val	Ser	Arg	Ala	Ile	Asp	Gly	Glu	Arg	Trp	Gln	Asn	Ile
			180					185					190		
Ala	Asp	Ala	Leu	Pro	Gly	Ile	Ala	Arg	Ala	Ala	Gln	Glu	Ala	Asn	Thr
			195				200					205			
Thr	Thr	Phe	Ser	Ala	Ser	Leu	Ser	Ala	Arg	Ile	Glu	Leu	Ala	Leu	Lys
		210				215					220				
Thr	Val	Arg	Glu	Ala	Asn	Gly	Thr	Glu	Ser	Ala	Ser	Glu	Gln	Ile	Tyr
225				230						235					240
Gln	Leu	Ile	Gly	Ala	Gly	Thr	Ser	Thr	Leu	Glu	Ser	Val	Pro	Ala	Ala
			245						250					255	
Ile	Ala	Met	Val	Glu	Leu	Ala	Gly	Thr	Asp	Pro	Asn	Arg	Cys	Ala	Val
			260					265					270		
Leu	Cys	Ala	Asn	Leu	Gly	Gly	Asp	Thr	Asp	Thr	Ile	Gly	Ala	Met	Ala
		275					280					285			
Thr	Ala	Ile	Cys	Gly	Ala	Leu	His	Gly	Val	Gln	Ala	Ile	Asp	Pro	Ala
		290				295					300				
Leu	Lys	Asn	Glu	Leu	Asp	Ala	Val	Asn	Arg	Leu	Asp	Phe	Gly	His	Tyr
305				310						315					320
Cys	Glu	Lys	Leu	Leu	His	Phe	Arg	Glu	His	Arg	Glu	Gly	Val		
			325						330					335	

<210> 6270

<211> 412

<212> PRT

<213> Enterobacter cloacae

<400> 6270

Trp	Phe	Ile	Trp	Gly	Ala	Trp	Phe	Val	Pro	Leu	Trp	Leu	Trp	Met	Ser
1				5					10					15	
Lys	Ser	Gly	Phe	Thr	Ala	Gly	Glu	Ile	Gly	Trp	Ser	Tyr	Ala	Cys	Thr
			20					25					30		
Ala	Ile	Ala	Ala	Ile	Leu	Ser	Pro	Ile	Met	Val	Gly	Ser	Leu	Thr	Asp
		35					40					45			
Arg	Phe	Phe	Ala	Ala	Gln	Lys	Val	Leu	Ala	Val	Leu	Met	Phe	Ala	Gly
		50				55					60				
Ala	Ile	Leu	Met	Tyr	Phe	Ala	Ala	Gln	Gln	Ile	Gln	Phe	Ser	Thr	Phe
65				70						75					80
Phe	Pro	Leu	Leu	Leu	Ala	Tyr	Ser	Leu	Thr	Tyr	Met	Pro	Thr	Ile	Ala
			85						90					95	
Leu	Thr	Asn	Ser	Ile	Ala	Phe	Ala	Asn	Val	Asp	Asp	Val	Glu	Ala	Asp
			100					105					110		
Phe	Pro	Arg	Ile	Arg	Val	Met	Gly	Thr	Ile	Gly	Trp	Ile	Ala	Ser	Gly
		115					120					125			
Leu	Ala	Cys	Gly	Phe	Leu	Pro	Gln	Met	Met	Gly	Tyr	Ser	Asp	Ile	Ser
		130				135					140				
Asp	Thr	Asn	Ile	Pro	Leu	Leu	Met	Thr	Ala	Ala	Ser	Ser	Leu	Leu	Leu
145					150					155					160

Gly Val Phe Ala Leu Phe Leu Pro Asn Thr Pro Pro Lys Ser Thr Gly
 165 170 175
 Lys Leu Asp Phe Lys Val Met Leu Gly Leu Asp Ala Leu Ile Leu Leu
 180 185 190
 Arg Asp Lys Asn Phe Leu Val Phe Phe Phe Cys Ser Phe Leu Phe Ala
 195 200 205
 Met Pro Leu Ala Phe Tyr Tyr Ile Phe Ala Asn Gly Tyr Leu Thr Glu
 210 215 220
 Val Gly Met Lys Asn Ala Thr Gly Trp Met Thr Leu Gly Gln Phe Ser
 225 230 235 240
 Glu Ile Phe Phe Met Leu Ala Leu Pro Phe Phe Thr Lys Arg Phe Gly
 245 250 255
 Ile Lys Lys Val Leu Leu Leu Gly Leu Ile Thr Ala Ala Ile Arg Tyr
 260 265 270
 Gly Phe Phe Val Tyr Gly Gly Ala Glu Gln Tyr Phe Thr Tyr Ala Leu
 275 280 285
 Leu Phe Leu Gly Ile Leu Leu His Gly Val Ser Tyr Asp Phe Tyr Tyr
 290 295 300
 Val Thr Ala Tyr Ile Tyr Val Asp Lys Lys Ala Pro Val His Met Arg
 305 310 315 320
 Asn Ala Ala Gln Gly Leu Ile Thr Leu Cys Cys Gln Gly Phe Gly Ser
 325 330 335
 Leu Leu Gly Tyr Arg Leu Gly Gly Val Met Met Glu Lys Met Phe Ala
 340 345 350
 Tyr Lys Glu Pro Val Asn Gly Leu Thr Phe Asn Trp Ala Gly Met Trp
 355 360 365
 Thr Phe Gly Ala Ile Met Ile Val Val Ile Ala Val Leu Phe Met Leu
 370 375 380
 Phe Phe Arg Glu Ser Asp Lys Glu Ile Thr Ala Ile Glu Val Val Asp
 385 390 395 400
 Gly Asp Thr Ala Leu Thr Arg Gly Glu Val Lys
 405 410

<210> 6271

<211> 298

<212> PRT

<213> Enterobacter cloacae

<400> 6271

Thr Thr Tyr Pro Phe Gly Ser Trp Pro Ala Ser Arg Cys Val Lys Thr
 1 5 10 15
 Leu Cys Leu Arg Val Ser Gly Arg Ala Leu Arg Ala Gly Gly Thr Gly
 20 25 30
 Met Thr Arg Ile Asn Ala Leu Thr Ile Ala Gly Thr Asp Pro Ser Gly
 35 40 45
 Gly Ala Gly Ile Gln Ala Asp Leu Lys Thr Phe Ser Ala Leu Gly Ala
 50 55 60
 Tyr Gly Cys Ser Val Ile Thr Ala Leu Val Ala Gln Asn Thr Arg Gly
 65 70 75 80
 Val Gln Ser Val Tyr Arg Ile Glu Pro Asp Phe Val Ala Ala Gln Leu
 85 90 95
 Asp Ser Val Phe Ser Asp Val Arg Ile Asp Thr Thr Lys Ile Gly Met
 100 105 110
 Leu Ala Glu Ala Asp Ile Val Glu Ala Val Ala Glu Arg Leu Lys Arg
 115 120 125
 Tyr Gln Ile Lys Asn Val Val Leu Asp Thr Val Met Leu Ala Lys Ser
 130 135 140
 Gly Asp Pro Leu Leu Ser Ala Ser Ala Val Asp Thr Leu Arg Lys Lys
 145 150 155 160
 Leu Leu Pro Gln Val Ala Leu Ile Thr Pro Asn Leu Pro Glu Ala Ala
 165 170 175

Ala Leu Leu Asp Ala Pro His Ala Gln Asn Glu Arg Glu Met Lys Glu
 180 185 190
 Gln Gly Asn Ala Leu Leu Ala Met Gly Cys Arg Ala Val Leu Met Lys
 195 200 205
 Gly Gly His Leu Asp Asp Ala Glu Ser Pro Asp Trp Leu Phe Thr His
 210 215 220
 Asp Gly Ala Gln Arg Phe Thr Ala Pro Arg Val Gln Thr Lys Asn Thr
 225 230 235 240
 His Gly Thr Gly Cys Thr Leu Ser Ala Ala Leu Ala Ala Leu Arg Pro
 245 250 255
 Arg Asn Ala Asn Trp Ala Asp Thr Val Gln Glu Ala Lys Ile Trp Leu
 260 265 270
 Ser Asp Ala Leu Ala Lys Ala Asp Ser Leu Glu Val Gly His Gly Ile
 275 280 285
 Gly Pro Val His His Phe His Ala Trp Trp
 290 295

<210> 6272

<211> 263

<212> PRT

<213> Enterobacter cloacae

<400> 6272

Ala Val Tyr Trp His Lys Thr Leu Cys Gln Arg Lys Thr Glu Met Glu
 1 5 10 15
 Gln Ala His Thr Arg Leu Ile Ala Gln Leu Lys Glu Arg Ile Ala Ala
 20 25 30
 Pro Asp Asn Thr Pro Leu Tyr Leu Lys Phe Ala Glu Thr Val Lys Asn
 35 40 45
 Ala Val Arg Ser Gly Val Leu Ala His Gly Asn Ile Leu Pro Gly Glu
 50 55 60
 Arg Asp Leu Ser Gln Leu Ala Gly Val Ser Arg Ile Thr Val Arg Lys
 65 70 75 80
 Ala Met Gln Ala Leu Glu Glu Ala Gly Val Val Thr Arg Ala Arg Gly
 85 90 95
 Tyr Gly Thr Gln Ile Asn Asn Ile Phe Glu Tyr Ser Leu Lys Glu Ala
 100 105 110
 Arg Gly Phe Ser Gln Gln Val Val Leu Arg Gly Lys Thr Pro Asn Thr
 115 120 125
 Leu Trp Val Asn Lys Arg Val Val Lys Cys Pro Glu Glu Ile Ala Arg
 130 135 140
 His Leu Ser Leu Ala Pro Asp Ser Asp Val Phe Leu Leu Lys Arg Ile
 145 150 155 160
 Arg Tyr Val Asp Asp Asp Ala Val Ser Ile Glu Glu Ser Trp Val Pro
 165 170 175
 Val Gly Leu Ile Pro Asn Pro Asp Asp Ile Gly Val Ser Leu Tyr Asp
 180 185 190
 Tyr Phe Arg Ser Gln Asn Ile Phe Pro Gln Arg Thr Arg Ser Arg Val
 195 200 205
 Ser Ala Arg Met Pro Asp Ser Glu Phe Gln Ala His Ile Lys Met Asp
 210 215 220
 Asp Lys Ile Pro Val Leu Val Ile Lys Gln Val Ala Leu Asp Gln Gln
 225 230 235 240
 His Arg Pro Ile Glu Tyr Ser Ile Ser Tyr Cys Arg Ser Asp Leu Tyr
 245 250 255
 Val Phe Val Cys Glu Glu
 260

<210> 6273

<211> 543

<212> PRT

<213> Enterobacter cloacae

<400> 6273

Thr	Asn	Ile	Met	Asn	Thr	Thr	Pro	Glu	Leu	His	Cys	Asp	Val	Leu	Ile
1				5					10					15	
Ile	Gly	Ser	Gly	Ala	Ala	Gly	Leu	Ser	Leu	Ala	Leu	Arg	Leu	Ala	Glu
			20					25					30		
His	Gln	Asn	Val	Ile	Val	Leu	Ser	Lys	Gly	Pro	Met	Ser	Glu	Gly	Ser
		35					40					45			
Thr	Phe	Tyr	Ala	Gln	Gly	Gly	Ile	Ala	Ala	Val	Phe	Asp	Glu	Thr	Asp
	50				55						60				
Ser	Ile	Ala	Ser	His	Val	Glu	Asp	Thr	Leu	Ile	Ala	Gly	Ala	Gly	Ile
65					70					75					80
Val	Asp	Glu	His	Ala	Ala	Glu	Phe	Val	Ala	Ser	Asn	Ala	Arg	His	Cys
			85						90					95	
Val	Gln	Trp	Leu	Ile	Asp	Gln	Gly	Val	Leu	Phe	Asp	Thr	Gln	Val	Gln
			100					105					110		
Pro	Asn	Gly	Glu	Glu	Ser	Tyr	His	Leu	Thr	Arg	Glu	Gly	Gly	His	Ser
		115					120					125			
His	Arg	Arg	Ile	Leu	His	Ala	Ala	Asp	Ala	Thr	Gly	Lys	Ala	Val	Glu
	130					135					140				
Thr	Thr	Leu	Val	Ser	Lys	Ala	Leu	Ser	His	Pro	Asn	Ile	Arg	Val	Leu
145					150					155					160
Glu	Arg	Ser	Asn	Ala	Val	Asp	Leu	Ile	Ile	Ser	Asp	Lys	Ile	Gly	Leu
			165					170						175	
Pro	Gly	Thr	Arg	Arg	Val	Val	Gly	Ala	Trp	Val	Trp	Asn	Arg	Asn	Lys
			180					185					190		
Glu	Lys	Val	Glu	Thr	Cys	Gln	Ala	Lys	Ala	Val	Val	Leu	Ala	Thr	Gly
		195					200					205			
Gly	Ala	Ser	Lys	Val	Tyr	His	Tyr	Thr	Thr	Asn	Pro	Asp	Ile	Ala	Ser
	210					215					220				
Gly	Asp	Gly	Ile	Ala	Met	Ala	Trp	Arg	Ala	Gly	Cys	Arg	Val	Ala	Asn
225					230					235					240
Leu	Glu	Phe	Asn	Gln	Phe	His	Pro	Thr	Ala	Leu	Phe	His	Pro	Gln	Ala
			245						250					255	
Arg	Asn	Phe	Leu	Leu	Thr	Glu	Ala	Leu	Arg	Gly	Glu	Gly	Ala	Tyr	Leu
			260					265					270		
Lys	Arg	Pro	Asp	Gly	Ser	Arg	Phe	Met	Pro	Asp	Phe	Asp	Pro	Arg	Gly
		275					280					285			
Glu	Leu	Ala	Pro	Arg	Asp	Ile	Val	Ala	Arg	Ala	Ile	Asp	His	Glu	Met
	290					295					300				
Lys	Arg	Leu	Gly	Val	Asp	Cys	Met	Tyr	Leu	Asp	Ile	Ser	His	Lys	Pro
305					310					315					320
Ala	Asp	Phe	Ile	Arg	Gln	His	Phe	Pro	Met	Ile	Tyr	Glu	Lys	Leu	Leu
			325						330					335	
Ser	Leu	Gly	Ile	Asp	Leu	Thr	Arg	Asp	Pro	Val	Pro	Ile	Val	Pro	Ala
			340					345					350		
Ala	His	Tyr	Thr	Cys	Gly	Gly	Val	Met	Val	Asp	Asp	His	Gly	Arg	Thr
		355					360					365			
Asp	Val	Asp	Gly	Leu	Tyr	Ala	Ile	Gly	Glu	Val	Ser	Tyr	Thr	Gly	Leu
	370					375					380				
His	Gly	Ala	Asn	Arg	Met	Ala	Ser	Asn	Ser	Leu	Leu	Glu	Cys	Leu	Val
385					390						395				400
Tyr	Gly	Trp	Ser	Ala	Ala	Glu	Asp	Ile	Thr	Lys	Arg	Met	Pro	Tyr	Ala
			405						410					415	
Arg	Pro	Thr	Thr	His	Leu	Pro	Ala	Trp	Asp	Glu	Ser	Arg	Val	Glu	Asn
			420					425					430		
Pro	Asp	Glu	Leu	Val	Val	Ile	Gln	His	Asn	Trp	His	Glu	Leu	Arg	Leu
		435					440					445			
Phe	Met	Trp	Asp	Tyr	Val	Gly	Ile	Val	Arg	Thr	Thr	Lys	Arg	Leu	Glu
450						455					460				

Arg	Ala	Leu	Arg	Arg	Ile	Met	Met	Leu	Gln	Gln	Glu	Ile	Asp	Glu	Tyr
465					470					475					480
Tyr	Ala	Asn	Phe	Arg	Val	Ser	Asn	Asn	Leu	Leu	Glu	Leu	Arg	Asn	Leu
				485						490				495	
Val	Gln	Val	Ala	Glu	Leu	Ile	Val	Arg	Cys	Ala	Met	Met	Arg	Lys	Glu
			500					505					510		
Ser	Arg	Gly	Leu	His	Tyr	Thr	Leu	Asp	Tyr	Pro	Glu	Pro	Leu	Glu	Thr
		515					520				525				
Ser	Gly	Pro	Ser	Val	Leu	Thr	Pro	Gln	Val	His	Ile	Lys	Arg		
	530					535					540				

<210> 6274

<211> 444

<212> PRT

<213> Enterobacter cloacae

<400> 6274

Asn	Met	Thr	Val	Thr	Thr	Phe	Ser	Glu	Leu	Glu	Leu	Asp	Glu	Ser	Leu
1				5					10					15	
Leu	Asn	Ala	Leu	Glu	Ser	Lys	Gly	Phe	Thr	Arg	Pro	Thr	Ala	Ile	Gln
		20						25					30		
Ala	Ala	Ala	Ile	Pro	Pro	Ala	Leu	Glu	Gly	Arg	Asp	Val	Leu	Gly	Ser
		35					40				45				
Ala	Pro	Thr	Gly	Thr	Gly	Lys	Thr	Ala	Ala	Tyr	Leu	Leu	Pro	Val	Leu
	50				55					60					
Gln	His	Leu	Leu	Asp	Phe	Pro	Arg	Lys	Lys	Ser	Gly	Pro	Pro	Arg	Ile
65				70					75					80	
Leu	Ile	Leu	Thr	Pro	Thr	Arg	Glu	Leu	Ala	Met	Gln	Val	Ala	Glu	His
			85					90					95		
Ala	Arg	Glu	Leu	Ala	Ala	Asn	Thr	His	Leu	Asp	Ile	Ala	Thr	Ile	Thr
		100					105					110			
Gly	Gly	Val	Ala	Tyr	Met	Asn	His	Ala	Glu	Val	Phe	Ser	Glu	Asn	Gln
	115				120						125				
Asp	Ile	Val	Val	Ala	Thr	Thr	Gly	Arg	Leu	Leu	Gln	Tyr	Ile	Lys	Glu
	130				135						140				
Glu	Asn	Phe	Asp	Cys	Arg	Ala	Val	Glu	Thr	Leu	Ile	Leu	Asp	Glu	Ala
145			150					155						160	
Asp	Arg	Met	Leu	Asp	Met	Gly	Phe	Ala	Gln	Asp	Ile	Glu	His	Ile	Ala
		165						170					175		
Gly	Glu	Thr	Arg	Trp	Arg	Asn	Gln	Thr	Met	Leu	Phe	Ser	Ala	Thr	Leu
		180					185						190		
Glu	Gly	Asp	Ala	Ile	Lys	Asp	Phe	Ala	Glu	Arg	Leu	Leu	Glu	Asp	Pro
	195				200						205				
Val	Glu	Val	Ser	Ala	Thr	Pro	Ser	Thr	Arg	Glu	Arg	Lys	Lys	Ile	His
	210				215						220				
Gln	Trp	Tyr	Tyr	Arg	Ala	Asp	Asn	Leu	Glu	His	Lys	Val	Glu	Leu	Leu
225				230					235					240	
Lys	His	Leu	Leu	Lys	Gln	Glu	Glu	Ala	Thr	Arg	Thr	Ile	Val	Phe	Val
			245					250					255		
Arg	Lys	Arg	Glu	Arg	Val	His	Glu	Leu	Ala	Glu	Met	Leu	Arg	Asn	Ala
		260					265					270			
Gly	Ile	Asn	Asn	Cys	Tyr	Leu	Glu	Gly	Glu	Met	Ala	Gln	Val	Lys	Arg
	275						280				285				
Thr	Glu	Gly	Ile	Lys	Arg	Leu	Thr	Asp	Gly	Arg	Val	Asn	Val	Leu	Val
	290				295						300				
Ala	Thr	Asp	Val	Ala	Ala	Arg	Gly	Ile	Asp	Ile	Pro	Asp	Val	Ser	His
305				310					315					320	
Val	Ile	Asn	Phe	Asp	Met	Pro	Arg	Ser	Gly	Asp	Thr	Tyr	Leu	His	Arg
			325					330					335		
Ile	Gly	Arg	Thr	Gly	Arg	Ala	Gly	Arg	Lys	Gly	Ile	Ala	Ile	Ser	Leu
			340				345						350		

Val Glu Ala His Asp His Leu Leu Leu Gln Lys Ile Gly Arg Tyr Val
 355 360 365
 Glu Glu Pro Leu Lys Ala Arg Val Ile Asp Gly Leu Arg Pro Thr Thr
 370 375 380
 Arg Ala Pro Ser Glu Lys Met Thr Gly Lys Pro Ser Lys Lys Ala Leu
 385 390 395 400
 Ala Lys Arg Ala Glu Arg Lys Glu Lys Glu Lys Pro Arg Val
 405 410 415
 Lys Gln Arg His Arg Asp Thr Lys Asn Ile Gly Lys Arg Arg Lys Pro
 420 425 430
 Ser Ser Ala Ala Ser Glu Thr Lys Thr Glu Glu
 435 440

<210> 6275

<211> 132

<212> PRT

<213> Enterobacter cloacae

<400> 6275

Gly Arg Gln His Met Ile Thr Gly Ile Gln Ile Thr Lys Ala Ala Asn
 1 5 10 15
 Asp Asp Leu Leu Asn Ser Phe Trp Leu Asp Ser Glu Lys Asn Glu
 20 25 30
 Ala Arg Cys Val Val Ala Lys Ala Gly Phe Ala Glu Asp Glu Ile Val
 35 40 45
 Pro Val Ser Lys Leu Gly Glu Ile Glu Tyr Arg Glu Ile Pro Met Gln
 50 55 60
 Val Gln Pro Glu Val Arg Val Glu Gly Gly Gln His Leu Asn Val Asn
 65 70 75 80
 Val Leu Arg Arg Glu Thr Leu Met Asp Ala Val Glu His Pro Glu Lys
 85 90 95
 Tyr Pro Gln Leu Thr Ile Arg Val Ser Gly Tyr Ala Val Arg Phe Asn
 100 105 110
 Ser Leu Thr Pro Glu Gln Gln Arg Asp Val Ile Ala Arg Thr Phe Thr
 115 120 125
 Glu Ser Leu
 130

<210> 6276

<211> 363

<212> PRT

<213> Enterobacter cloacae

<400> 6276

Phe Phe Thr Arg Lys Val Glu Gln Met Leu Gln His Arg Gln Gln Val
 1 5 10 15
 Gly Cys Cys Leu Pro Arg Ala Gly Trp Arg Arg Thr Glu His Ile Ala
 20 25 30
 Ala Leu Lys Arg Arg Arg Asn Gly Arg Gly Leu Asn Gly Gly Arg Ala
 35 40 45
 Cys Lys Ala Phe Ala Leu Lys Gly Ile Glu Gln Ala Phe Ile Glu Phe
 50 55 60
 Lys Phe Gly Lys Ser Arg Tyr Ser His Val Leu Pro Leu Cys Gly Ala
 65 70 75 80
 Leu Ile Ile Asp Val Thr Ala Val Ile Phe Ile Cys Leu Tyr Gly Tyr
 85 90 95
 Arg Phe Ser Thr Thr Ser Leu Ser Pro Met Leu Leu Gln Phe His Ser
 100 105 110
 Glu Gly Cys Pro Asp Met Ser Gln Leu Lys Ala Gln Leu Arg Arg Asp
 115 120 125
 Gly Phe Thr Phe Lys Gln Phe Phe Val Ala His Asp Arg Cys Ala Met

130		135		140
Lys Val Gly Thr Asp Gly Ile Leu Leu Gly Ala Trp Ala Pro Val Ala				
145		150		155
Gly Val Lys Arg Ile Leu Asp Ile Gly Thr Gly Ser Gly Leu Gln Ala				
	165		170	
Leu Met Leu Ala Gln Arg Thr Glu Glu His Val Thr Ile Asp Ala Val				
	180		185	190
Glu Leu Asp Pro Gln Ala Ala Arg Gln Ala Ser Glu Asn Ala Ala Asp				
	195	200		205
Ser Pro Trp Ala Glu Arg Ile Arg Val Glu Cys Ala Asp Val Leu Thr				
	210	215		220
Trp Ala Pro Glu Gln Thr Ala Arg Tyr Asp Leu Ile Val Ser Asn Pro				
225		230		235
Pro Tyr Phe Thr Pro Gly Val Glu Cys Gly Thr Pro Glu Arg Glu Gln				
	245		250	255
Ala Arg Tyr Thr Gly Ser Leu Asp His Lys Ala Leu Leu Thr Ser Ala				
	260		265	270
Ala Glu Leu Ile Ser Glu Glu Gly Phe Phe Cys Val Val Leu Pro Glu				
	275		280	285
Ser Thr Gly Asn Thr Phe Ile Glu Ile Ala His Glu Ile Gly Trp Asn				
	290	295		300
Leu Arg Leu Arg Thr Asp Ile Ser Asp Thr Glu Gly Arg Leu Pro His				
305		310		315
Arg Val Leu Leu Ala Leu Ser Pro Lys Glu Gly Glu Cys Phe Ile Asp				
	325		330	335
Arg Met Val Ile Arg Gly Pro Asp Gln Arg Tyr Ser Glu Asp Tyr Thr				
	340		345	350
Ala Leu Thr Gln Ala Phe Tyr Leu Phe Met				
	355		360	

<210> 6277

<211> 138

<212> PRT

<213> Enterobacter cloacae

<400> 6277

Ser Gly Val Ser Ile Thr Arg Gly Ile Trp Phe Gly Glu Thr Leu Pro				
1	5		10	15
Arg Met Ser Glu Gln Leu Thr Asp Gln Val Leu Val Glu Arg Val Gln				
	20		25	30
Lys Gly Asp Gln Lys Ala Phe Asn Leu Leu Val Val Arg Tyr Gln His				
	35		40	45
Lys Val Ala Ser Leu Val Ser Arg Tyr Val Pro Ser Gly Asp Val Pro				
	50		55	60
Asp Val Val Gln Glu Ser Phe Ile Lys Ala Tyr Arg Ala Leu Asp Ser				
65		70		75
Phe Arg Gly Asp Ser Ala Phe Tyr Thr Trp Leu Tyr Arg Ile Ala Val				
	85		90	95
Asn Thr Ala Lys Asn Tyr Leu Val Ala Gln Gly Arg Arg Pro Pro Ser				
	100		105	110
Ser Asp Val Asp Ala Ile Asp Ala Glu Asn Phe Glu Ser Gly Gly Ala				
	115		120	125
Leu Lys Glu Ile Ser Asn Pro Asp Asn Leu				
130		135		

<210> 6278

<211> 305

<212> PRT

<213> Enterobacter cloacae

<400> 6278

Tyr Val Phe Ile Thr Lys Thr Glu Arg Cys Phe Val Ile Tyr Leu Cys
 1 5 10 15
 Leu Arg Ala Arg Ser Ile Leu Glu Val Tyr Val Asp Val Arg Gln Ser
 20 25 30
 Ile His Ser Ala His Ala Lys Met Leu Asp Thr Gln Gly Leu Arg Ser
 35 40 45
 Glu Phe Leu Val Glu Gln Val Phe Glu Ala Asp Lys Tyr Thr Met Val
 50 55 60
 Tyr Ser His Ile Asp Arg Ile Ile Val Gly Gly Ile Met Pro Val Ala
 65 70 75 80
 Lys Thr Val Ser Val Gly Gly Glu Val Gly Lys Gln Leu Gly Val Ser
 85 90 95
 Tyr Phe Leu Glu Arg Arg Glu Leu Gly Val Ile Asn Ile Gly Gly Pro
 100 105 110
 Gly Thr Ile Thr Val Asp Gly Gln Cys Tyr Glu Ile Gly His Arg Asp
 115 120 125
 Ala Leu Tyr Val Gly Lys Gly Ala Lys Glu Val Val Phe Ala Ser Ser
 130 135 140
 Asp Ala Ser Lys Pro Ala Lys Phe Tyr Tyr Asn Cys Ala Pro Ala His
 145 150 155 160
 Thr Thr Tyr Pro Thr Lys Lys Val Thr Pro Ala Asp Val Ala Pro Val
 165 170 175
 Thr Leu Gly Asp Asn Leu Thr Ser Asn Arg Arg Thr Ile Asn Lys Tyr
 180 185 190
 Phe Val Pro Asp Val Leu Glu Thr Cys Gln Leu Ser Met Gly Leu Thr
 195 200 205
 Glu Leu Ala Pro Gly Asn Leu Trp Asn Thr Met Pro Cys His Thr His
 210 215 220
 Glu Arg Arg Met Glu Val Tyr Phe Tyr Phe Asn Met Asp Glu Asp Ala
 225 230 235 240
 Cys Val Phe His Met Met Gly Gln Pro Gln Glu Thr Arg His Ile Val
 245 250 255
 Met His Asn Glu Gln Ala Val Ile Ser Pro Ser Trp Ser Ile His Ser
 260 265 270
 Gly Val Gly Thr Lys Ala Tyr Thr Phe Ile Trp Gly Met Val Gly Glu
 275 280 285
 Asn Gln Val Phe Asp Asp Met Asp His Val Ala Val Lys Asp Leu Arg
 290 295 300

305

<210> 6279

<211> 257

<212> PRT

<213> Enterobacter cloacae

<400> 6279

Gly Thr Asn Met Ile Leu Asp Ala Phe Ser Leu Gln Gly Lys Val Ala
 1 5 10 15
 Val Val Ser Gly Cys Asp Thr Gly Leu Gly Gln Gly Met Ala Leu Gly
 20 25 30
 Leu Ala Glu Ala Gly Cys Asp Ile Val Gly Ile Asn Ile Val Glu Pro
 35 40 45
 Thr Glu Thr Ile Glu Arg Val Thr Ala Leu Gly Arg Arg Phe Leu Ser
 50 55 60
 Leu Thr Ala Asp Leu Arg Lys Ile Asp Ala Ile Pro Glu Leu Leu Asp
 65 70 75 80
 Arg Ala Val Ala Glu Phe Gly His Ile Asp Ile Leu Val Asn Asn Ala
 85 90 95
 Gly Leu Ile Arg Arg Glu Asp Ala Ile Asn Phe Ser Glu Thr Asp Trp
 100 105 110

Asp	Asp	Val	Met	Asn	Leu	Asn	Ile	Lys	Ser	Val	Phe	Phe	Met	Ser	Gln
		115					120					125			
Ala	Ala	Ala	Lys	His	Phe	Ile	Ala	Gln	Gly	Lys	Gly	Gly	Lys	Ile	Ile
		130					135					140			
Asn	Ile	Ala	Ser	Met	Leu	Ser	Phe	Gln	Gly	Gly	Ile	Arg	Val	Pro	Ser
145					150					155					160
Tyr	Thr	Ala	Ser	Lys	Ser	Ala	Val	Met	Gly	Val	Thr	Arg	Leu	Leu	Ala
				165					170					175	
Asn	Glu	Trp	Ala	Gln	His	Asn	Ile	Asn	Val	Asn	Ala	Ile	Ala	Pro	Gly
			180					185					190		
Tyr	Met	Ala	Thr	Asn	Asn	Thr	Gln	Gln	Leu	Arg	Ala	Asp	Glu	Glu	Arg
		195					200					205			
Ser	Ala	Ala	Ile	Leu	Glu	Arg	Ile	Pro	Ala	Gly	Arg	Trp	Gly	Leu	Pro
		210				215					220				
Ser	Asp	Leu	Met	Gly	Pro	Val	Val	Phe	Leu	Ala	Ser	Pro	Ala	Ser	Asp
225					230					235					240
Tyr	Ile	Asn	Gly	Tyr	Thr	Val	Ala	Val	Asp	Gly	Gly	Trp	Leu	Ala	Arg
				245					250					255	

<210> 6280

<211> 519

<212> PRT

<213> Enterobacter cloacae

<400> 6280

Arg	Ile	Ser	Leu	Leu	Arg	Gln	Glu	Thr	Met	Thr	Ser	Val	Asn	Asp	Ser
1			5						10					15	
Thr	Leu	Met	Pro	Ala	Ala	Leu	Arg	Asp	Thr	Arg	Arg	Met	Asn	Gln	Phe
			20					25					30		
Val	Ser	Val	Ala	Ala	Ala	Val	Ala	Gly	Leu	Leu	Phe	Gly	Leu	Asp	Ile
		35					40					45			
Gly	Val	Ile	Ala	Gly	Ala	Leu	Pro	Phe	Ile	Thr	Asp	His	Phe	Thr	Leu
	50					55					60				
Ser	Asn	Arg	Leu	Gln	Glu	Trp	Val	Val	Ser	Ser	Met	Met	Leu	Gly	Ala
65				70					75						80
Ala	Ile	Gly	Ala	Leu	Phe	Asn	Gly	Trp	Leu	Ser	Phe	Arg	Leu	Gly	Arg
				85					90					95	
Lys	Tyr	Ser	Leu	Met	Val	Gly	Ala	Ile	Leu	Phe	Val	Ala	Gly	Ser	Leu
			100					105					110		
Gly	Ser	Ala	Phe	Ala	Thr	Asn	Val	Glu	Val	Leu	Leu	Leu	Ser	Arg	Val
		115					120					125			
Leu	Leu	Gly	Val	Ala	Val	Gly	Ile	Ala	Ser	Tyr	Thr	Ala	Pro	Leu	Tyr
	130					135					140				
Leu	Ser	Glu	Met	Ala	Ser	Glu	Asn	Val	Arg	Gly	Lys	Met	Ile	Ser	Met
145					150					155					160
Tyr	Gln	Leu	Met	Val	Thr	Leu	Gly	Ile	Val	Leu	Ala	Phe	Leu	Ser	Asp
				165					170					175	
Thr	Tyr	Phe	Ser	Tyr	Ser	Gly	Asn	Trp	Arg	Ala	Met	Leu	Gly	Val	Leu
			180					185					190		
Ala	Leu	Pro	Ala	Val	Leu	Leu	Ile	Val	Leu	Val	Ile	Phe	Leu	Pro	Asn
		195					200					205			
Ser	Pro	Arg	Trp	Leu	Ala	Gln	Lys	Gly	Arg	His	Val	Glu	Ala	Glu	Glu
	210					215					220				
Val	Leu	Arg	Met	Leu	Arg	Asp	Thr	Ser	Glu	Lys	Ala	Arg	Glu	Glu	Leu
225					230					235					240
Asn	Glu	Ile	Arg	Glu	Ser	Leu	Lys	Leu	Lys	Gln	Gly	Gly	Trp	Ser	Leu
				245					250					255	
Phe	Lys	Ala	Asn	Arg	Asn	Val	Arg	Arg	Ala	Val	Phe	Leu	Gly	Met	Leu
			260					265					270		

Leu Gln Ala Met Gln Gln Phe Thr Gly Met Asn Ile Ile Met Tyr Tyr
 275 280 285
 Ala Pro Arg Ile Phe Lys Met Ala Gly Phe Thr Thr Thr Glu Gln Gln
 290 295 300
 Met Ile Ala Thr Leu Val Val Gly Leu Thr Phe Met Phe Ala Thr Phe
 305 310 315 320
 Ile Ala Val Phe Thr Val Asp Lys Ala Gly Arg Lys Pro Ala Leu Lys
 325 330 335
 Ile Gly Phe Ser Val Met Ala Leu Gly Thr Leu Ile Leu Gly Tyr Cys
 340 345 350
 Leu Met Gln Phe Asp Asn Gly Thr Ala Ser Ser Gly Leu Ser Trp Leu
 355 360 365
 Ser Val Gly Met Thr Met Met Cys Ile Ala Gly Tyr Ala Met Ser Ala
 370 375 380
 Ala Pro Val Val Trp Ile Leu Cys Ser Glu Ile Gln Pro Leu Lys Cys
 385 390 395 400
 Arg Asp Phe Gly Ile Thr Cys Ser Thr Thr Thr Asn Trp Val Ser Asn
 405 410 415
 Met Ile Ile Gly Ala Thr Phe Leu Thr Leu Leu Asp Ala Ile Gly Ala
 420 425 430
 Ala Gly Thr Phe Trp Leu Tyr Thr Val Leu Asn Val Ala Phe Ile Gly
 435 440 445
 Val Thr Phe Lys Leu Ile Pro Glu Thr Lys Gly Val Asn Pro Gly Thr
 450 455 460
 Tyr Leu Asn Ala Thr Leu Lys Lys Met Gly Lys Thr Pro Val Ile Ser
 465 470 475 480
 Gly Phe Tyr Val Ile Ala Arg Gly Val Pro Pro Thr Phe Arg Gly Ala
 485 490 495
 Leu Leu Pro Phe Ala Pro Ser Val Thr Thr Leu Val Ser Ala Cys Ser
 500 505 510
 Pro Gln His Phe Ser Ser
 515

<210> 6281

<211> 247

<212> PRT

<213> Enterobacter cloacae

<400> 6281

Phe Ser Thr Tyr Ile Thr Arg Ser Lys Glu Cys Ile Met Ala Lys Gly
 1 5 10 15
 Met Arg Val Lys Leu Asn Tyr Glu Val Ser Arg Asp Pro Asp Thr Gly
 20 25 30
 Val Glu Val Thr Arg Leu Thr Pro Pro Glu Val Thr Cys His Arg Asn
 35 40 45
 Tyr Phe Tyr Gln Lys Cys Phe Phe Asn Asp Gly Ser His Leu Leu Phe
 50 55 60
 Ala Gly Glu Phe Asp Gly His Trp Asn Tyr Tyr Leu Leu Asp Leu Lys
 65 70 75 80
 Asn Ala Glu Ala Val Gln Leu Thr Glu Gly Ala Gly Asp Asn Thr Phe
 85 90 95
 Gly Gly Phe Leu Ser Pro Asp Asp Lys Ser Leu Tyr Tyr Val Lys Asn
 100 105 110
 Asp Arg Thr Leu Leu Glu Val Asp Leu Gln Thr Leu Ala Glu Arg Glu
 115 120 125
 Val Tyr Arg Val Pro Glu Glu Trp Val Gly Tyr Gly Thr Trp Val Ala
 130 135 140
 Asn Ser Asp Cys Thr Lys Leu Val Gly Ile Glu Ile Ala Arg Cys Asp
 145 150 155 160
 Trp Thr Pro Leu Asn Asp Trp Lys Ile Phe His Asp Phe Phe His Lys
 165 170 175

Gly	Pro	His	Cys	Arg	Leu	Leu	Arg	Val	Asp	Leu	Lys	Thr	Gly	Glu	Ser
			180					185					190		
Thr	Thr	Ile	His	Asp	Glu	Lys	Ile	Trp	Leu	Gly	His	Pro	Ile	Tyr	Arg
		195					200					205			
Pro	Phe	Asp	Asp	Asn	Thr	Val	Ala	Phe	Cys	His	Glu	Gly	Pro	His	Asp
	210					215					220				
Leu	Val	Asp	Ala	Arg	Met	Trp	Leu	Val	Asn	Glu	Asp	Gly	Ser	Asn	Val
225					230					235					240
Arg	Lys	Val	Lys	Thr	His	Ala									
				245											

<210> 6282

<211> 287

<212> PRT

<213> Enterobacter cloacae

<400> 6282

Tyr	Gly	Leu	Asp	Pro	Ala	Thr	Gly	Pro	Ile	Gly	Arg	Pro	Ala	Met	Val
1				5					10					15	
Ser	Lys	Lys	Lys	Thr	Arg	Val	Val	Asp	Asp	Val	Val	Lys	Asn	Ala	Pro
			20					25					30		
Leu	Lys	Thr	Lys	Thr	Tyr	Glu	Gln	Glu	Leu	Arg	Arg	Leu	His	Val	Glu
		35					40					45			
Leu	Val	Lys	Leu	Gln	Gln	Trp	Val	Val	Ala	Lys	Gly	Leu	Lys	Val	Cys
	50					55					60				
Ile	Val	Phe	Glu	Gly	Arg	Asp	Gly	Ala	Gly	Lys	Gly	Gly	Val	Ile	Lys
65				70						75					80
Ala	Ile	Thr	Glu	Arg	Val	Ser	Pro	Arg	Val	Phe	Arg	Val	Val	Ala	Leu
				85					90					95	
Pro	Ala	Pro	Thr	Asp	Lys	Glu	Lys	Ser	Gln	Leu	Tyr	Phe	Gln	Arg	Tyr
			100					105					110		
Val	Pro	His	Leu	Pro	Ser	Ala	Gly	Glu	Ile	Val	Ile	Phe	Asp	Arg	Ser
		115					120					125			
Trp	Tyr	Asn	Arg	Ala	Gly	Val	Glu	Lys	Val	Met	Gly	Phe	Cys	Thr	Glu
	130				135						140				
Glu	Gln	Ala	Glu	Lys	Phe	Leu	Asp	Gly	Thr	Pro	Val	Met	Glu	Lys	Ala
145					150					155					160
Met	Val	Asp	Ala	Gly	Ile	Ile	Leu	Leu	Lys	Tyr	Trp	Leu	Glu	Val	Thr
				165					170					175	
Pro	Lys	Glu	Gln	Glu	Arg	Arg	Leu	Arg	Asp	Arg	Ile	Asn	Asp	Gly	Arg
			180					185					190		
Lys	Ile	Trp	Lys	Leu	Ser	Pro	Met	Asp	Ile	Lys	Ser	Phe	Asn	Leu	Trp
		195					200					205			
Asp	Glu	Tyr	Thr	Leu	Ala	Arg	Asp	Ala	Met	Phe	Lys	Ala	Thr	Asp	Thr
	210					215					220				
Ala	Trp	Ala	Pro	Trp	Phe	Val	Ala	Arg	Ser	Glu	Asp	Lys	Lys	Arg	Val
225					230					235					240
Arg	Leu	Asn	Ile	Ile	Ser	His	Leu	Leu	Ser	Gln	Ile	Pro	Tyr	Lys	Glu
				245					250					255	
Ile	His	Val	Asp	Lys	Val	Asp	Leu	Pro	Lys	Arg	Lys	Ile	Gly	Lys	Val
		260						265					270		
Lys	Pro	Thr	Lys	Tyr	Pro	Phe	Arg	Tyr	Ile	Ala	Glu	Arg	Phe		
		275					280					285			

<210> 6283

<211> 310

<212> PRT

<213> Enterobacter cloacae

<400> 6283

Arg	Ile	Asp	Ala	Ile	Ser	Phe	Pro	Phe	Asp	Phe	Leu	Lys	Thr	Gly	Arg
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

1				5					10				15	
Val	Met	Asp	Arg	Lys	Arg	Ala	Thr	Leu	Thr	Gly	Leu	Ala	Ala	Ile
			20					25					30	
Leu	Trp	Ser	Thr	Met	Val	Gly	Leu	Ile	Arg	Ser	Val	Ser	Glu	Gly
		35					40					45		
Gly	Pro	Val	Gly	Gly	Ala	Ala	Met	Ile	Tyr	Thr	Val	Ser	Gly	Leu
	50					55					60			
Cys	Leu	Val	Thr	Val	Gly	Phe	Pro	Asp	Leu	Arg	Arg	Phe	Ser	Arg
65					70					75				80
Tyr	Leu	Phe	Ala	Gly	Ser	Ile	Leu	Phe	Val	Ser	Tyr	Glu	Met	Cys
				85					90					95
Ala	Leu	Ser	Leu	Gly	Tyr	Ala	Ala	Thr	Arg	Ser	Gln	Ala	Ile	Glu
			100					105					110	
Gly	Met	Val	Asn	Tyr	Leu	Trp	Pro	Ser	Leu	Thr	Ile	Ala	Phe	Ala
		115					120					125		
Leu	Phe	Asn	Gly	Gln	Lys	Ser	Thr	Leu	Trp	Val	Ile	Pro	Gly	Leu
	130					135					140			
Ile	Ser	Leu	Leu	Gly	Val	Cys	Trp	Val	Leu	Gly	Gly	Glu	Asn	Gly
145					150					155				160
Gln	Leu	Asn	Asp	Ile	Met	Gln	Asn	Val	Val	Ser	Ser	Pro	Leu	Ser
			165						170					175
Gly	Leu	Ala	Phe	Ala	Gly	Ala	Phe	Ile	Trp	Ala	Ala	Tyr	Cys	Thr
			180					185					190	
Thr	Ser	Lys	Tyr	Ala	Lys	Gly	Gln	Asn	Gly	Ile	Thr	Leu	Phe	Val
		195					200					205		
Leu	Thr	Ala	Leu	Ser	Leu	Trp	Val	Lys	Tyr	Ala	Val	Ser	Asp	Gln
	210					215					220			Pro
Glu	Met	Val	Phe	Ser	Val	Pro	Val	Val	Val	Lys	Leu	Leu	Met	Cys
225					230					235				Gly
Val	Ala	Leu	Gly	Phe	Gly	Tyr	Ala	Ala	Trp	Asn	Ile	Gly	Ile	Leu
				245					250					His
Gly	Asn	Val	Thr	Val	Leu	Ala	Ala	Val	Ser	Tyr	Phe	Thr	Pro	Val
			260					265					270	
Ser	Ala	Ala	Leu	Ala	Ala	Ile	Val	Leu	Ser	Ser	Pro	Leu	Ser	Phe
		275					280					285		Ser
Phe	Trp	Gln	Gly	Ala	Leu	Met	Val	Cys	Ala	Gly	Ser	Leu	Leu	Cys
	290					295					300			Trp
Tyr	Ala	Thr	Arg	Lys										
305					310									

<210> 6284

<211> 177

<212> PRT

<213> Enterobacter cloacae

<400> 6284

Gly	Leu	Phe	Lys	Met	Lys	Leu	Lys	Leu	Val	Ala	Val	Ala	Val	Thr	Ser
1				5					10					15	
Met	Leu	Ala	Ala	Gly	Val	Val	Asn	Ala	Ala	Glu	Val	Phe	Asn	Lys	Asp
			20					25					30		
Gly	Asn	Lys	Leu	Asp	Leu	Tyr	Gly	Lys	Val	Thr	Gly	Leu	His	Tyr	Phe
		35					40					45			
Ser	Asp	Asp	Ala	Gly	Ser	Asp	Gly	Asp	Lys	Thr	Tyr	Val	Arg	Leu	Gly
	50					55					60				
Phe	Lys	Gly	Glu	Thr	Gln	Ile	Asn	Asp	Gln	Leu	Thr	Gly	Tyr	Gly	Gln
65					70					75					80
Trp	Glu	Tyr	Glu	Phe	Lys	Gly	Asn	Arg	Ser	Glu	Ala	Gln	Gly	Ser	Asp
				85					90					95	
Gly	Asn	Lys	Thr	Arg	Leu	Ala	Tyr	Ala	Gly	Leu	Lys	Phe	Asp	Glu	Phe
			100					105					110		
Gly	Ser	Phe	Asp	Tyr	Gly	Arg	Asn	Tyr	Gly	Val	Ala	Tyr	Asp	Ile	Gly

115 120 125
 Ala Trp Thr Asp Val Leu Pro Glu Phe Gly Gly Asp Thr Trp Thr Gln
 130 135 140
 Thr Asp Gly Phe Met Thr Gly Arg Thr Thr Gly Val Ala Thr Tyr Arg
 145 150 155 160
 Asn Thr Asp Phe Phe Gly Leu Val Asp Gly Leu Asn Val Ala Ala Gln
 165 170 175
 Tyr

<210> 6285

<211> 94

<212> PRT

<213> Enterobacter cloacae

<400> 6285

Phe Asp Ala Ile Lys Lys Gly Ala Leu Leu Leu Val Cys Arg Ala Lys
 1 5 10 15
 Ser Tyr Gln Ile Thr Arg Thr Thr Met Asp Val Ser Arg Arg Gln Phe
 20 25 30
 Phe Lys Ile Cys Ala Gly Gly Met Ala Gly Thr Thr Ala Ala Met Leu
 35 40 45
 Gly Phe Ala Pro Lys Met Ala Leu Ala Gln Ala Arg Asn Tyr Lys Leu
 50 55 60
 Leu Arg Ala Lys Glu Ile Arg Asn Thr Cys Thr Tyr Cys Ser Val Gly
 65 70 75 80
 Cys Gly Leu Leu Met Tyr Ser Leu Gly Asp Gly Ala Lys
 85 90

<210> 6286

<211> 111

<212> PRT

<213> Enterobacter cloacae

<400> 6286

Ser Arg Gly Ala Leu Cys Pro Glu Arg Gly Gly Ala Val Gly Leu Arg
 1 5 10 15
 Ser Thr Val Lys Thr Val Leu Arg Tyr Pro Glu Tyr Arg Ala Pro Gly
 20 25 30
 Ser Asp Lys Trp Gln Arg Ile Ser Trp Asp Asp Ala Phe Ser Arg Ile
 35 40 45
 Ala Lys Leu Met Lys Ala Asp Arg Asp Ala Asn Phe Ile Glu Lys Asn
 50 55 60
 Glu Gln Gly Ile Thr Val Asn Arg Trp Thr Ser Thr Gly Met Leu Cys
 65 70 75 80
 Ala Ser Ala Ala Ser Asn Glu Thr Gly Met Leu Thr Gln Lys Phe Val
 85 90 95
 Arg Ser Leu Gly Met Leu Ala Val Asp Asn Gln Ala Arg Val
 100 105 110

<210> 6287

<211> 820

<212> PRT

<213> Enterobacter cloacae

<400> 6287

His Gly Pro Thr Val Ala Ser Leu Ala Pro Thr Phe Gly Arg Gly Ala
 1 5 10 15
 Met Thr Asn His Trp Val Asp Ile Lys Asn Ala Asn Val Val Val Val
 20 25 30
 Met Gly Gly Asn Ala Ala Glu Ala His Pro Val Gly Phe Arg Trp Ala

		35				40				45				
Met	Glu	Ala	Lys	Asn	Asn	Asn	Asp	Ala	Thr	Leu	Ile	Val	Val	Asp
50						55					60			Pro
Arg	Phe	Thr	Arg	Thr	Ala	Ser	Val	Ala	Asp	Ile	Tyr	Ala	Pro	Ile
65					70					75				Arg
Ser	Gly	Thr	Asp	Ile	Thr	Phe	Leu	Ser	Gly	Val	Leu	Leu	Tyr	Leu
				85					90					Ile
Glu	Asn	Asn	Lys	Ile	Asn	Ala	Glu	Tyr	Val	Lys	His	Tyr	Thr	Asn
			100					105					110	Ala
Ser	Leu	Leu	Val	Arg	Glu	Asp	Phe	Ala	Phe	Glu	Asp	Gly	Leu	Phe
		115					120					125		Ser
Gly	Tyr	Asp	Ala	Glu	Lys	Arg	Gln	Tyr	Asp	Lys	Ser	Ser	Trp	Asn
	130					135					140			Tyr
Gln	Phe	Asp	Glu	Asn	Gly	Tyr	Ala	Lys	Arg	Asp	Glu	Thr	Leu	Ser
145					150					155				Asp
Pro	His	Cys	Val	Trp	Asn	Leu	Leu	Lys	Gln	His	Val	Ser	Arg	Tyr
				165					170					Thr
Pro	Asp	Val	Val	Glu	Asn	Ile	Cys	Gly	Thr	Pro	Lys	Ala	Asp	Phe
			180					185					190	Leu
Lys	Val	Cys	Glu	Val	Leu	Ala	Ser	Thr	Ser	Ala	Ala	Asp	Arg	Thr
		195					200					205		Thr
Thr	Phe	Leu	Tyr	Ala	Leu	Gly	Trp	Thr	Gln	His	Thr	Val	Gly	Ala
	210					215					220			Gln
Asn	Ile	Arg	Thr	Met	Ala	Met	Ile	Gln	Leu	Leu	Leu	Gly	Asn	Met
225					230					235				Gly
Met	Ala	Gly	Gly	Gly	Val	Asn	Ala	Leu	Arg	Gly	His	Ser	Asn	Ile
				245					250					Gln
Gly	Leu	Thr	Asp	Leu	Ser	Leu	Leu	Ser	Thr	Ser	Leu	Pro	Gly	Tyr
			260					265					270	Leu
Thr	Leu	Pro	Ser	Glu	Lys	Gln	Thr	Asp	Trp	Gln	Ser	Trp	Leu	Asp
		275					280					285		Ala
Asn	Thr	Pro	Lys	Ala	Thr	Arg	Pro	Asp	Gln	Val	Asn	Tyr	Trp	Ser
	290					295					300			Asn
Tyr	Pro	Lys	Phe	Ala	Val	Ser	Leu	Met	Lys	Ser	Phe	Tyr	Gly	Asp
305					310					315				Ala
Ala	Gln	Lys	Glu	Asn	Asp	Trp	Gly	Phe	Glu	Trp	Leu	Pro	Lys	Trp
				325					330					Asp
Gln	Ala	Tyr	Asp	Val	Ile	Lys	Tyr	Phe	Asn	Met	Met	Asp	Lys	Gly
			340					345					350	Asp
Val	Thr	Gly	Tyr	Ile	Cys	Gln	Gly	Phe	Asn	Pro	Val	Ala	Ser	Phe
		355					360					365		Pro
Asp	Lys	Asn	Lys	Val	Val	Arg	Ser	Leu	Ser	Lys	Leu	Lys	Tyr	Met
	370					375					380			Val
Val	Ile	Asp	Pro	Leu	Val	Thr	Glu	Thr	Ser	Thr	Phe	Trp	Gln	Asn
385					390					395				His
Gly	Glu	Ser	Asn	Asp	Val	Asp	Pro	Ala	Ser	Ile	Gln	Thr	Glu	Val
				405					410					Phe
Arg	Leu	Pro	Ser	Thr	Cys	Phe	Ala	Glu	Glu	Asp	Gly	Ser	Ile	Ala
			420					425					430	Asn
Ser	Gly	Arg	Trp	Leu	Gln	Trp	His	Trp	Lys	Gly	Gln	Asp	Ala	Pro
		435					440					445		Gly
Glu	Ala	Arg	Asn	Asp	Gly	Glu	Ile	Leu	Ala	Gly	Ile	Tyr	His	Arg
	450					455					460			Leu
Arg	Glu	Met	Tyr	Arg	Thr	Glu	Gly	Gly	Lys	Gly	Ala	Glu	Pro	Leu
465					470					475				Leu
Lys	Met	Ser	Trp	Asn	Tyr	Lys	Gln	Pro	Asp	His	Pro	Glu	Ser	Glu
				485					490					Glu
Val	Ala	Lys	Glu	Asn	Asn	Gly	Val	Ala	Leu	Ala	Asp	Leu	Tyr	Asp
			500					505					510	Ala
Asn	Gly	Asn	Leu	Val	Ala	Lys	Lys	Gly	Gln	Leu	Leu	Asn	Ser	Phe
		515					520					525		Ala

Leu Leu Arg Asp Asp Gly Thr Thr Ala Ser Ser Cys Trp Ile Tyr Thr
 530 535 540
 Gly Ser Trp Thr Glu Gln Gly Asn Gln Met Ala Asn Arg Asp Asn Ala
 545 550 555 560
 Asp Pro Ser Gly Leu Gly Asn Thr Leu Gly Trp Ala Trp Ala Trp Pro
 565 570 575
 Leu Asn Arg Arg Val Leu Tyr Asn Arg Ala Ser Ala Asp Val Asn Gly
 580 585 590
 Lys Pro Trp Asp Pro Lys Arg Met Leu Ile Glu Trp Asn Gly Thr Lys
 595 600 605
 Trp Thr Gly Asn Asp Ile Pro Asp Phe Asn Thr Ala Ala Pro Gly Ser
 610 615 620
 Asn Thr Gly Pro Phe Ile Met Gln Pro Glu Gly Leu Gly Arg Leu Phe
 625 630 635 640
 Ala Ile Asp Lys Leu Ala Glu Gly Pro Phe Pro Glu His Tyr Glu Pro
 645 650 655
 Met Glu Thr Pro Leu Gly Thr Asn Pro Leu His Pro Asn Val Val Ser
 660 665 670
 Ser Pro Val Val Arg Ile Tyr Glu Asp Asp Val Leu Arg Leu Gly Lys
 675 680 685
 Lys Asp Lys Phe Pro Tyr Val Gly Thr Thr Tyr Arg Leu Thr Glu His
 690 695 700
 Phe His Thr Trp Thr Lys His Ala Arg Leu Asn Ala Ile Ala Gln Pro
 705 710 715 720
 Glu Gln Phe Val Glu Ile Ser Glu Thr Leu Ala Lys Ala Lys Gly Ile
 725 730 735
 Ala Asn Gly Asp Arg Val Lys Val Ser Ser Lys Arg Gly Phe Ile Arg
 740 745 750
 Ala Val Ala Val Val Thr Arg Arg Leu Gln Thr Leu Asn Val His Gly
 755 760 765
 Gln Gln Val Glu Thr Val Gly Ile Pro Leu His Trp Gly Phe Glu Gly
 770 775 780
 Val Ala Gln Lys Gly Tyr Ile Ala Asn Thr Leu Thr Pro Asn Val Gly
 785 790 795 800
 Asp Ser Asn Ser Gln Thr Pro Glu Tyr Lys Ala Phe Leu Val Asn Ile
 805 810 815
 Glu Lys Ala
 820

<210> 6288

<211> 239

<212> PRT

<213> Enterobacter cloacae

<400> 6288

Phe Ile Thr Thr Ser Val Ser Gly Arg Ile Lys Arg Trp Met Thr Thr
 1 5 10 15
 Arg Arg Ser Ile Met Ser Lys Ser Lys Met Ile Val Arg Thr Lys Phe
 20 25 30
 Val Asp Arg Ala Cys His Trp Thr Val Val Ile Cys Phe Phe Leu Val
 35 40 45
 Ala Val Ser Gly Ile Ser Phe Phe Phe Pro Thr Leu Gln Trp Leu Thr
 50 55 60
 Glu Thr Phe Gly Thr Pro Gln Met Gly Arg Ile Leu His Pro Phe Phe
 65 70 75 80
 Gly Val Leu Ile Phe Val Val Leu Met Phe Met Phe Val Arg Phe Val
 85 90 95
 His His Asn Ile Pro Asp Lys Gln Asp Ile Pro Trp Leu Lys Gly Ile
 100 105 110
 Val Glu Val Leu Lys Gly Asn Glu His Lys Val Ala Lys Val Gly Lys
 115 120 125

Tyr Asn Ala Gly Gln Lys Met Met Phe Trp Thr Ile Met Ser Met Ile
 130 135 140
 Phe Val Leu Leu Val Thr Gly Val Ile Ile Trp Arg Pro Tyr Phe Ala
 145 150 155 160
 His Tyr Phe Pro Ile Gln Val Val Arg Tyr Ala Leu Leu Ile His Ala
 165 170 175
 Thr Ser Ala Ile Ile Leu Ile His Ala Ile Leu Ile His Met Tyr Met
 180 185 190
 Ala Phe Trp Val Lys Gly Ser Ile Lys Gly Met Ile Glu Gly Lys Val
 195 200 205
 Ser Arg Arg Trp Ala Gln Lys His His Pro Arg Trp Tyr Arg Asp Val
 210 215 220
 Glu Arg Leu Glu Ala Gln Lys Glu Ser Ser Glu Gly Leu Lys
 225 230 235

<210> 6289

<211> 90

<212> PRT

<213> Enterobacter cloacae

<400> 6289

Phe Glu Leu Val His His Thr Ser Leu Ile Asn Asn Ala Arg Cys Val
 1 5 10 15
 Phe Phe Asn Ser Gly Arg Gly Met Lys Lys Thr Ile Phe Ser Leu Ala
 20 25 30
 Leu Ala Thr Phe Gly Leu Gly Met Ala Glu Phe Gly Ile Met Gly Val
 35 40 45
 Leu Thr Glu Leu Ala His Asp Thr Gly Ile Ser Ile Pro Ser Ala Gly
 50 55 60
 Asn Met Ile Ser Phe Tyr Pro Phe Gly Val Val Ile Ser Ala Pro Ile
 65 70 75 80
 Val Ala Leu Phe Ser Thr Asn Phe Arg
 85 90

<210> 6290

<211> 295

<212> PRT

<213> Enterobacter cloacae

<400> 6290

Met Ala Met Glu Thr Gln Asp Ile Ile Lys Arg Ser Ala Thr Asn Pro
 1 5 10 15
 Ile Thr Pro Ala Pro Arg Ala Arg Asp Tyr Lys Ala Glu Val Ala Lys
 20 25 30
 Leu Ile Asp Val Ser Ser Cys Val Gly Cys Lys Ala Cys Gln Val Ala
 35 40 45
 Cys Ser Glu Trp Asn Asp Ile Arg Asp Glu Val Gly His Cys Val Gly
 50 55 60
 Val Tyr Asp Asn Pro Ala Asp Leu Ser Ala Lys Ser Trp Thr Val Met
 65 70 75 80
 Arg Phe Ser Glu Thr Asp Gln Asn Gly Lys Leu Glu Trp Leu Ile Arg
 85 90 95
 Lys Asp Gly Cys Met His Cys Glu Asp Pro Gly Cys Leu Lys Ala Cys
 100 105 110
 Pro Ser Ala Gly Ala Ile Ile Gln Tyr Ala Asn Gly Ile Val Asp Phe
 115 120 125
 Gln Gln Asp Asn Cys Ile Gly Cys Gly Tyr Cys Ile Ala Gly Cys Pro
 130 135 140
 Phe Asn Ile Pro Arg Leu Asn Lys Glu Asp Asn Arg Val Tyr Lys Cys
 145 150 155 160
 Thr Leu Cys Val Asp Arg Val Ser Val Gly Gln Glu Pro Ala Cys Val

Lys	Thr	Cys	Pro	165	Thr	Gly	Ala	Ile	His	170	Phe	Gly	Thr	Lys	Lys	175	Glu	Met
			180						185							190		
Leu	Glu	Val	Ala	Gln	Gln	Arg	Val	Asp	Lys	Leu	Lys	Ala	Arg	Gly	Tyr			
		195					200							205				
Asp	Lys	Ala	Gly	Ile	Tyr	Asn	Pro	Gln	Gly	Val	Gly	Gly	Thr	His	Val			
	210					215						220						
Met	Tyr	Val	Leu	His	His	Asn	Asp	Gln	Pro	Glu	Leu	Tyr	His	Asn	Leu			
225					230						235						240	
Pro	Lys	Asp	Pro	Ala	Ile	Asp	Thr	Ser	Ile	Asn	Leu	Trp	Lys	Gly	Ala			
				245						250					255			
Leu	Lys	Pro	Leu	Ser	Ala	Ala	Gly	Phe	Ile	Ala	Thr	Phe	Ala	Gly	Leu			
			260					265						270				
Ile	Tyr	His	Tyr	Ile	Gly	Ile	Gly	Pro	Asn	Lys	Glu	Val	Asp	Asp	Asp			
		275					280						285					
Glu	Glu	Glu	His	His	Glu													
	290						295											

<210> 6291

<211> 99

<212> PRT

<213> Enterobacter cloacae

<400> 6291

Trp	Arg	Asn	Cys	Val	Arg	Ile	Glu	Thr	Ser	Leu	Phe	Thr	Thr	Pro	Glu			
1				5					10					15				
Cys	Met	Lys	Ala	Ile	Thr	Leu	Tyr	Asp	Val	Ala	Arg	Val	Ala	Gly	Val			
			20					25					30					
Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys	Lys			
		35					40					45						
Lys	Lys	Lys	Lys	Lys	Lys	Val	Arg	Gln	Ala	Met	Ala	Ala	Leu	His	Tyr			
		50				55					60							
Val	Pro	Asn	Arg	Gly	Ala	Gln	Gln	Leu	Ala	Gly	Lys	Arg	Thr	Arg	Thr			
65					70					75					80			
Leu	Gly	Pro	Ile	Thr	Ser	Ile	Tyr	Leu	Ala	Ala	Gly	Thr	Ile	Gln	Arg			
				85					90					95				
Leu	Gln	Leu																

<210> 6292

<211> 151

<212> PRT

<213> Enterobacter cloacae

<400> 6292

Pro	Gly	Gln	Arg	Cys	Cys	Cys	Cys	Gly	Ser	Arg	Cys	Val	Ser	Cys	Arg			
1				5					10					15				
Gly	Leu	Gly	Thr	Ile	Ser	Asn	Val	Ile	Cys	Ile	Val	Gln	Ala	Ala	Asp			
			20					25					30					
Ala	Ser	Met	Ala	Leu	Ile	Pro	Glu	Leu	Thr	Ser	Leu	Pro	Val	Arg	Ile			
		35					40					45						
Thr	Leu	Leu	Val	Ser	Gly	Ile	Val	Val	Asn	Ala	Leu	Ala	Thr	Gly	Met			
		50				55					60							
Tyr	Ile	Gly	Ala	Gly	Phe	Gly	Ala	Gly	Pro	Arg	Asp	Gly	Leu	Met	Thr			
65					70					75					80			
Gly	Ile	His	Ala	Arg	Leu	Gly	Trp	Ser	Ile	Arg	Ser	Val	Arg	Thr	Ala			
				85					90					95				
Ile	Glu	Val	Thr	Val	Leu	Ile	Val	Gly	Tyr	Leu	Leu	Gly	Gly	Ala	Phe			
			100					105					110					
Gly	Val	Gly	Thr	Val	Leu	Tyr	Ala	Leu	Thr	Ile	Gly	Pro	Leu	Ile	Gln			
		115					120						125					

Leu Cys Leu Pro Trp Phe Arg Gln Arg Pro Arg Ile Gln Lys Ala Ala
 130 135 140
 Gln Pro Glu Arg Ile Val
 145 150

<210> 6293

<211> 161

<212> PRT

<213> Enterobacter cloacae

<400> 6293

Leu Gln Gly Gln Ala His Glu Gly Gly Phe Met Lys Ile Gly Glu Leu
 1 5 10 15
 Ala Arg Lys Ala Gly Cys Pro Val Glu Thr Ile Arg Tyr Tyr Glu Lys
 20 25 30
 Glu Gly Leu Leu Gln Ala Pro Leu Arg Asp Ile Glu Asn Asn Tyr Arg
 35 40 45
 His Tyr Asp Asn Asn His Leu Glu Lys Leu Leu Phe Ile Arg Arg Cys
 50 55 60
 Arg Ser Leu Asp Met Thr His Glu Glu Ile Arg Ala Leu Leu Leu Ala
 65 70 75 80
 Ile Asn Asn Asn Gly Lys Glu Cys Gly Pro Ile Asp Ala Ile Ile Ser
 85 90 95
 Ala His Leu Ala His Val Gln His Arg Ile Asn Glu Leu Ile Ala Leu
 100 105 110
 Glu Lys Gln Leu Gln Glu Leu Asn Asp Val Cys Asn Ala Asp Arg Ser
 115 120 125
 Val Asp Glu Cys Gly Ile Val Gln Lys Leu Thr Ala Glu Asp Glu Asp
 130 135 140
 Arg Asp Leu Pro Leu Thr Val Pro Thr Asp His Leu Gly Gly Val His
 145 150 155 160

<210> 6294

<211> 156

<212> PRT

<213> Enterobacter cloacae

<400> 6294

Val Met Asn Ile Gly Lys Ala Ser Ser Glu Ser Gly Ile Ser Ala Lys
 1 5 10 15
 Met Ile Arg Tyr Tyr Glu Gln Ile Gly Leu Ile Pro Ala Thr Gly Arg
 20 25 30
 Thr Glu Ala Gly Tyr Arg Asp Tyr Ala Pro Asn Asp Ile His Arg Leu
 35 40 45
 Ile Phe Ile Arg Ser Ala Arg Asp Leu Gly Phe Ser Leu Glu Glu Ile
 50 55 60
 Glu Gly Leu Leu Lys Leu Trp Asn Asp Lys Ser Arg Gln Ser Ser Asp
 65 70 75 80
 Val Lys Arg Leu Ala Gln Glu His Ile Asn Asp Leu Asp Arg Arg Ile
 85 90 95
 Glu Ser Met Arg Gln Met Ala Asp Thr Leu Arg Val Leu Ile Gln Ser
 100 105 110
 Cys Ala Gly Asp Glu Arg Ala Glu Cys Pro Ile Leu His Arg Leu Thr
 115 120 125
 Ile Ala Asp Asp Ile Ser His Ser Gly Lys Arg Glu Gly Ala Val Gln
 130 135 140
 Arg Arg Ser Arg Gly Asn Arg Val Ser Lys Asp
 145 150 155

<210> 6295
 <211> 81
 <212> PRT
 <213> Enterobacter cloacae

<400> 6295
 Asn Leu Val Ile Arg Gly His Met Ile Thr Lys Thr Tyr Ala Asp Ser
 1 5 10 15
 Val Val Lys Asp Ile Val Gln Trp Val Glu Asn Ser Leu Thr Ser Thr
 20 25 30
 Leu Leu Val Glu Glu Ile Ala Glu Lys Ser Gly Tyr Ser Arg Trp His
 35 40 45
 Phe Gln Arg Ile Phe Lys His Ala Thr Gly Ile Ala Leu Gly Glu Tyr
 50 55 60
 Val Lys Pro Asp Asp Tyr Leu Cys Cys Arg Arg Val Glu Thr Asn Tyr
 65 70 75 80

<210> 6296
 <211> 547
 <212> PRT
 <213> Enterobacter cloacae

<400> 6296
 Gly Cys Ser Ile Ser Glu Pro Asn Asp Glu Lys Tyr Ile Met Ser Ile
 1 5 10 15
 Gln Lys Lys Gln His Ser Asn Asp Ala Glu Thr Gln Val Ser Leu Pro
 20 25 30
 Ile Glu Gly Met Thr Cys Ala Ser Cys Val Gly Arg Val Glu Ala Ala
 35 40 45
 Leu Thr Lys Val Glu Gly Val Glu Ser Val Ser Val Asn Leu Ala Thr
 50 55 60
 Glu Arg Ala Asp Ile Leu Leu Asn Thr Pro Val Glu Arg Met Ala Leu
 65 70 75 80
 Ile Lys Ala Ile Glu Asn Val Gly Tyr Glu Val Pro Leu Thr Ser Val
 85 90 95
 Glu Leu Ser Val Gln Gly Met Thr Cys Ala Ser Cys Val Gly Arg Val
 100 105 110
 Glu Lys Ala Leu Arg Ala Val Glu Gly Val Lys Asp Ala Thr Val Asn
 115 120 125
 Leu Ala Thr Glu Arg Ala Thr Ile Arg Gly Val Ala Gly Thr Asp Asp
 130 135 140
 Leu Ile Ala Ala Ile Glu Lys Val Gly Tyr Glu Ala Ser Leu Val Asp
 145 150 155 160
 Thr Arg Gly Gln Asn Val Glu Ala Ala Glu Lys Lys Asp Ala Glu
 165 170 175
 Lys Ala Ala Leu Lys Lys Asp Leu Val Leu Ala Thr Ile Leu Ala Leu
 180 185 190
 Pro Val Phe Ile Met Glu Met Gly Ser His Leu Ile Pro Gly Met His
 195 200 205
 Gln Trp Ile Met Asp Thr Ile Gly Leu Gln Glu Ser Trp Tyr Leu Gln
 210 215 220
 Phe Val Leu Thr Leu Leu Val Leu Val Ile Pro Gly Arg Arg Phe Tyr
 225 230 235 240
 Leu Lys Gly Ile Pro Ala Leu Ile Arg Leu Gly Pro Asp Met Asn Ser
 245 250 255
 Leu Val Ser Val Gly Thr Leu Ala Ala Phe Gly Tyr Ser Met Val Ala
 260 265 270
 Thr Phe Ala Pro Gly Leu Leu Pro Gln Gly Thr Val Asn Val Tyr Tyr
 275 280 285

Glu Ala Ala Ala Val Ile Val Ala Leu Ile Leu Leu Gly Arg Phe Met
 290 295 300
 Glu Ala Arg Ala Lys Gly Arg Thr Ser Glu Ala Ile Lys Arg Leu Val
 305 310 315 320
 Gly Leu Gln Ala Lys Glu Ala His Val Leu Arg Asn Gly Val Val Val
 325 330 335
 Asp Ile Pro Ile Asn Asp Val Val Leu Asp Asp Ile Ile Glu Val Arg
 340 345 350
 Pro Gly Glu Arg Val Pro Val Asp Gly Glu Val Ser Glu Gly Thr Ser
 355 360 365
 Phe Val Asp Glu Ser Met Ile Thr Gly Glu Pro Ile Pro Val Glu Lys
 370 375 380
 Val Pro Gly Ser Leu Met Val Gly Gly Thr Val Asn Gln Lys Gly Ala
 385 390 395 400
 Leu Arg Leu Arg Ala Thr Ala Val Gly Gly Gln Thr Met Leu Ser Gln
 405 410 415
 Ile Ile Arg Met Val Glu Gln Ala Gln Gly Ser Lys Leu Pro Ile Gln
 420 425 430
 Ala Val Val Asp Lys Val Thr Leu Trp Phe Val Pro Val Val Met Leu
 435 440 445
 Ala Ala Leu Leu Thr Phe Leu Ala Trp Leu Thr Phe Gly Pro Ser Pro
 450 455 460
 Ala Leu Ser Phe Ala Leu Val Asn Ala Val Ala Val Leu Ile Ile Ala
 465 470 475 480
 Cys Pro Cys Ala Met Gly Leu Ala Thr Pro Thr Ser Ile Met Val Gly
 485 490 495
 Thr Gly Arg Gly Ala Glu Met Gly Ile Leu Phe Arg Lys Gly Glu Ala
 500 505 510
 Leu Gln Leu Leu Lys Asp Ala Lys Val Val Ala Val Asp Lys Thr Gly
 515 520 525
 Thr Leu Thr Glu Gly Ala Pro Arg Asn Asp Arg Pro Gly Val Ser Arg
 530 535 540
 Arg Val
 545

<210> 6297

<211> 852

<212> PRT

<213> Enterobacter cloacae

<400> 6297

Leu Thr Gly Glu Ala Ile Lys Met Ser Gly Ser Val Lys Asn Ser Lys
 1 5 10 15
 Thr Gln Val Arg Glu Glu Ser Ala Gly Cys Cys Glu Lys Ile Asn Leu
 20 25 30
 Ile Val Gly Ser Lys Met Gln Arg Ser Glu Glu Pro Ala Lys Ala His
 35 40 45
 Gly His Ala His Asp His Lys Asp Cys Ser Ala Glu Leu Ser His Lys
 50 55 60
 Glu His Gly His Gly Ser Asp Lys His Leu His Arg Glu Gln Gly His
 65 70 75 80
 Val Lys Gly Gly His Ala His Glu Gly Cys Ser His Glu His Ser His
 85 90 95
 Thr Asp Glu Glu His Asp His Gly Glu Glu Glu His Ser His Gly Asp
 100 105 110
 His Gln His Lys Gly Cys Asn His Asp His Ala Gln Asp Asp Gln Ala
 115 120 125
 Asp Glu His His Gly His Ser Gly Asp Cys Cys Ser Gly Ala Pro Thr
 130 135 140
 Asn Leu Ser Asn Leu Gly Gly Ser Lys Val Val Ala Gly Gly Leu Arg
 145 150 155 160

Thr	Glu	Ile	Arg	Ile	Met	Gln	Met	Asp	Cys	Pro	Val	Glu	Glu	Asn	Leu
				165					170					175	
Ile	Lys	Lys	Lys	Leu	Gly	Ala	Met	Thr	Ser	Val	Lys	Glu	Leu	Asp	Phe
			180					185					190		
Asn	Leu	Met	Gln	Arg	Val	Leu	Thr	Val	Thr	His	Thr	Pro	Asp	Ser	Leu
		195					200					205			
Glu	Pro	Ile	Leu	Val	Ala	Ile	Arg	Ser	Leu	Gly	Phe	Val	Pro	Glu	Val
	210					215					220				
Ser	Asp	Asn	Asn	Gly	Glu	Lys	Lys	Asn	Ile	Gln	Glu	Lys	Lys	Lys	Pro
225				230						235					240
Trp	Trp	Pro	Leu	Ala	Leu	Ala	Gly	Val	Ala	Ala	Leu	Ala	Ala	Glu	Val
			245						250					255	
Met	His	Trp	Ala	Asp	Met	Pro	Asp	Trp	Leu	Glu	Ala	Gly	Leu	Ala	Leu
			260					265					270		
Ile	Ala	Val	Leu	Leu	Ser	Gly	Leu	Thr	Thr	Tyr	Lys	Lys	Gly	Trp	Ile
		275					280					285			
Ser	Ile	Arg	Asn	Gly	Asn	Leu	Asn	Ile	Asn	Ala	Leu	Met	Ser	Ile	Ala
	290					295					300				
Val	Thr	Gly	Ala	Leu	Val	Leu	Gly	Gln	Trp	Pro	Glu	Ala	Ala	Met	Val
305					310					315					320
Met	Val	Leu	Phe	Thr	Ile	Ala	Glu	Leu	Ile	Glu	Ala	Lys	Ser	Leu	Asp
			325						330					335	
Arg	Ala	Arg	Asn	Ala	Ile	Gly	Ser	Leu	Met	Ser	Leu	Thr	Pro	Glu	Thr
			340					345					350		
Ala	Met	Val	Gln	Gln	Thr	Asp	Gly	Ser	Trp	Gln	Glu	Val	Asp	Ala	Ser
		355					360					365			
Ser	Val	Gln	Pro	Gly	Ser	Ile	Val	Arg	Val	Lys	Pro	Gly	Glu	Arg	Ile
	370					375					380				
Gly	Leu	Asp	Gly	Glu	Ile	Val	Lys	Gly	Gln	Thr	Thr	Ile	Asn	Gln	Ala
385					390					395					400
Pro	Ile	Thr	Gly	Glu	Ser	Leu	Pro	Val	Asp	Lys	Met	Ala	Gly	Asp	Ser
			405						410					415	
Val	Phe	Ala	Gly	Thr	Ile	Asn	Gln	Ser	Gly	Ser	Phe	Glu	Tyr	Lys	Val
			420					425					430		
Thr	Ala	Ala	Ala	Asn	Asn	Thr	Thr	Leu	Ala	Arg	Ile	Ile	His	Ala	Val
		435					440					445			
Glu	Gln	Ala	Gln	Gly	Ala	Lys	Ala	Ala	Thr	Gln	Arg	Phe	Val	Asp	Arg
	450					455					460				
Phe	Ser	Gln	Ile	Tyr	Thr	Pro	Val	Val	Met	Gly	Ile	Ser	Val	Ala	Val
465					470					475					480
Ala	Val	Leu	Pro	Pro	Leu	Phe	Gly	Ala	Gly	Thr	Trp	Gln	Glu	Trp	Ile
			485						490					495	
Tyr	Lys	Ala	Leu	Val	Met	Leu	Val	Ile	Ala	Cys	Pro	Cys	Ala	Leu	Val
			500					505					510		
Ile	Ser	Thr	Pro	Val	Thr	Ile	Val	Ser	Gly	Leu	Thr	Ala	Ala	Ala	Arg
		515					520					525			
Lys	Gly	Ile	Leu	Ile	Lys	Gly	Gly	Val	Tyr	Leu	Glu	Gln	Gly	Arg	Lys
	530					535					540				
Leu	Lys	Ala	Leu	Ala	Leu	Asp	Lys	Thr	Gly	Thr	Ile	Thr	His	Gly	Lys
545					550					555					560
Pro	Val	Gln	Thr	Asp	Val	Met	Val	Phe	Asn	Gly	Glu	Ser	Glu	Leu	Glu
			565						570					575	
Val	Arg	Thr	Val	Ala	Ala	Ser	Leu	Ala	Ser	Tyr	Ser	Asp	His	Pro	Val
			580					585					590		
Ser	Gln	Ala	Val	Val	Asn	Ala	Ser	Val	Asp	Leu	Lys	Lys	Gln	Ser	Val
		595					600					605			
Glu	Asn	Phe	Glu	Ala	Ile	Val	Gly	Arg	Gly	Val	His	Gly	Val	Ile	Ala
	610					615					620				
Gly	Lys	Asp	Phe	Tyr	Leu	Gly	Asn	Leu	Arg	Leu	Ala	Glu	Asp	Leu	Leu
625					630					635					640
Ser	Cys	Pro	Leu	Glu	Val	Lys	Ala	Thr	Val	Gln	Ser	Leu	Glu	Ser	Leu

				645					650					655			
Gly	Lys	Thr	Val	Ile	Leu	Phe	Asn	Asp	Gly	Lys	Gln	Val	Leu	Gly	Leu		
			660					665					670				
Phe	Ala	Val	Ala	Asp	Thr	Val	Lys	Asn	Thr	Ser	Arg	Glu	Ala	Ile	Gln		
		675					680					685					
Gln	Leu	His	His	Leu	Gly	Val	Lys	Thr	Val	Met	Leu	Thr	Gly	Asp	Asn		
	690				695						700						
Pro	His	Thr	Ala	Lys	Ala	Ile	Ala	Ser	Gln	Val	Gly	Ile	Asp	Glu	Ala		
705				710					715					720			
Arg	Gly	Ser	Gln	Leu	Pro	Glu	Asp	Lys	His	Gln	Val	Val	Gln	Glu	Tyr		
			725					730						735			
Ser	Arg	Ile	Gly	Val	Thr	Gly	Met	Val	Gly	Asp	Gly	Ile	Asn	Asp	Ala		
			740					745					750				
Pro	Ala	Leu	Ala	Ala	Ala	Asp	Ile	Gly	Phe	Ala	Met	Gly	Ala	Met	Gly		
		755				760						765					
Thr	Asp	Thr	Ala	Ile	Glu	Thr	Ala	Asp	Val	Ala	Leu	Met	Asp	Asp	Asp		
	770				775						780						
Leu	Arg	Lys	Ile	Pro	Ala	Phe	Val	Lys	Leu	Ser	Arg	Gln	Thr	Tyr	Ser		
785				790					795					800			
Leu	Leu	Val	Gln	Asn	Ile	Ser	Leu	Ala	Leu	Gly	Ile	Lys	Ala	Ile	Phe		
			805						810					815			
Leu	Val	Leu	Thr	Leu	Met	Gly	Met	Gly	Thr	Met	Trp	Met	Ala	Val	Phe		
			820					825					830				
Ala	Asp	Val	Gly	Ala	Ser	Leu	Leu	Val	Val	Ala	Asn	Gly	Leu	Arg	Leu		
		835				840						845					
Leu	Arg	Lys															
	850																

<210> 6298

<211> 316

<212> PRT

<213> Enterobacter cloacae

<400> 6298

Leu	Arg	Gly	Arg	Pro	Val	Met	Thr	Asp	Leu	Glu	Leu	Ala	Glu	Gly	Phe		
1				5				10						15			
Glu	Leu	Asn	Glu	Val	Leu	Ala	Lys	Val	Ala	Ala	Val	Glu	Ser	Arg	Ser		
		20						25					30				
Glu	His	Pro	Ile	Ala	Arg	Ala	Ile	Val	Glu	Ser	Ala	Leu	Glu	Lys	Gly		
		35					40					45					
Ile	Ser	Leu	Pro	Ile	Leu	Thr	Glu	Phe	Asp	Ser	Ile	Thr	Gly	Met	Gly		
	50					55					60						
Val	Arg	Ala	Ile	Val	Asp	Gly	Glu	Cys	Ile	Glu	Val	Gly	Ala	Asp	Arg		
65				70					75					80			
Phe	Met	Arg	Glu	Leu	Gly	Leu	Asp	Val	Glu	His	Phe	Ser	Gln	Thr	Ser		
			85					90						95			
Val	Arg	Leu	Gly	Asn	Glu	Gly	Lys	Ser	Pro	Leu	Tyr	Val	Ala	Ile	Gly		
		100						105					110				
Gly	Arg	Leu	Ala	Ala	Ile	Ile	Ala	Val	Ala	Asp	Pro	Ile	Lys	Ser	Ser		
		115					120					125					
Thr	Pro	Ile	Ala	Ile	Asn	Ala	Leu	His	Gln	Leu	Gly	Leu	Lys	Val	Ala		
	130				135						140						
Met	Ile	Thr	Gly	Asp	Asn	Ala	Asn	Thr	Ala	His	Ala	Ile	Ala	Arg	Gln		
145				150					155					160			
Leu	Gly	Phe	Asp	Glu	Val	Val	Ala	Glu	Val	Leu	Pro	Glu	Gly	Lys	Val		
			165					170						175			
Glu	Ala	Val	Arg	Arg	Leu	Lys	Glu	Ser	Tyr	Gly	Lys	Val	Ala	Tyr	Val		
		180					185						190				
Gly	Asp	Gly	Ile	Asn	Asp	Ala	Pro	Ala	Leu	Ala	Val	Ala	Asp	Ile	Gly		
	195					200						205					
Leu	Ala	Ile	Gly	Thr	Gly	Thr	Asp	Ile	Ala	Val	Glu	Ser	Ala	Asp	Val		

210	215	220
Val Leu Met Ser Gly Asn	Leu Gln Gly Val Pro Asn Ala Ile Gly Leu	
225	230	235
Ser Lys Ala Thr Ile Gly Asn Ile Arg Gln Asn Leu Phe Trp Ala Phe		240
	245	250
Gly Tyr Asn Ala Ala Leu Ile Pro Val Ala Ala Gly Leu Leu Tyr Pro		255
	260	265
Ala Tyr Gly Leu Leu Leu Ser Pro Ile Phe Ala Ala Gly Ala Met Ala		270
	275	280
Leu Ser Ser Val Phe Val Leu Gly Asn Ala Leu Arg Leu Arg Arg Phe		285
	290	295
Gln Pro Pro Leu Met Glu Asp Ala Gly Asn His		300
305	310	315

<210> 6299

<211> 288

<212> PRT

<213> Enterobacter cloacae

<400> 6299

Thr Cys Gln Arg Phe Ala Ala Ile Phe Arg Ala Pro Val Val Arg Ala		
1	5	10
Leu Met Ala Arg Leu Tyr Pro Asn Gly Pro Ala Asp Ile Asn His Phe		15
	20	25
Gln Ala Ala Gly Gly Val Pro Val Leu Met Arg Glu Leu Leu Lys Gly		30
	35	40
Gly Leu Leu His Glu Asp Val Asn Thr Val Ala Gly Phe Gly Leu His		45
	50	55
Arg Tyr Thr Leu Glu Pro Trp Leu Asn Asn Gly Glu Leu Asp Trp Arg		60
	65	70
Glu Gly Ala Ser Asp Ser Leu Asp Pro Gln Val Ile Ala Thr Phe Glu		75
	85	90
Gln Pro Phe Ser Pro His Gly Gly Thr Lys Val Leu Ser Gly Asn Leu		95
	100	105
Gly Arg Ala Val Met Lys Thr Ser Ala Val Pro Glu Glu Asn Gln Val		110
	115	120
Ile Glu Ala Pro Ala Val Val Phe Glu Ser Gln His Asp Val Leu Pro		125
	130	135
Ala Phe Asp Ala Gly Leu Leu Asp Lys Asp Cys Val Val Val Val Arg		140
	145	150
His Gln Gly Pro Lys Ala Asn Gly Met Pro Glu Leu His Lys Leu Met		155
	165	170
Pro Pro Leu Gly Val Leu Leu Asp Arg Arg Phe Lys Ile Ala Leu Val		175
	180	185
Thr Asp Gly Arg Leu Ser Gly Ala Ser Gly Lys Val Pro Ser Ala Ile		190
	195	200
His Val Thr Pro Glu Ala Tyr Asp Gly Gly Leu Leu Ala Lys Val Arg		205
	210	215
Asp Gly Asp Met Ile Arg Val Asn Gly Gln Thr Gly Glu Leu Thr Leu		220
	225	230
Leu Val Asp Glu Ala Glu Leu Ala Ala Arg Gln Pro His Ile Pro Asp		235
	245	250
Leu Ser Ala Ser Arg Val Gly Thr Gly Arg Glu Met Phe Gly Ala Leu		255
	260	265
Arg Glu Lys Leu Ser Gly Ala Glu Gln Gly Ala Thr Cys Ile Thr Phe		270
	275	280
		285

<210> 6300

<211> 227

<212> PRT

<213> Enterobacter cloacae

<400> 6300

```

Asp Asp Leu Ile Leu Thr Ile Trp Arg Glu Lys Thr Leu Met Lys Asn
1      5      10      15
Trp Lys Thr Ser Ala Glu Ala Ile Leu Thr Thr Gly Pro Val Val Pro
      20      25      30
Val Ile Val Val Asn Lys Leu Glu His Ala Val Pro Met Ala Lys Ala
      35      40      45
Leu Val Ala Gly Gly Val Arg Val Leu Glu Val Thr Leu Arg Thr Ala
      50      55      60
Cys Ala Met Asp Ala Ile Arg Ala Ile Ala Lys Glu Val Pro Glu Ala
65      70      75      80
Ile Ile Gly Ala Gly Thr Val Leu Asn Ala Gln Gln Leu Ala Glu Val
      85      90      95
Thr Glu Ala Gly Ala Gln Phe Ala Ile Ser Pro Gly Leu Thr Glu Pro
      100     105     110
Leu Leu Lys Ala Ala Thr Glu Gly Ser Ile Pro Leu Ile Pro Gly Ile
      115     120     125
Ser Thr Val Ser Glu Leu Met Leu Gly Met Asp Tyr Gly Leu Lys Glu
130     135     140
Phe Lys Phe Phe Pro Ala Glu Ala Asn Gly Gly Thr Lys Ala Leu Gln
145     150     155     160
Ala Ile Ala Gly Pro Phe Ser Gln Val Arg Phe Cys Pro Thr Gly Gly
      165     170     175
Ile Ser Pro Val Asn Tyr Arg Asp Tyr Leu Ala Leu Lys Ser Val Leu
      180     185     190
Cys Ile Gly Gly Ser Trp Leu Val Pro Ala Asp Ala Leu Glu Ala Gly
      195     200     205
Asp Trp Asp Arg Ile Thr Lys Leu Ala Arg Glu Ala Val Glu Gly Ala
210     215     220
Lys Gln
225

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<210> 6301

<211> 840

<212> PRT

<213> Enterobacter cloacae

<400> 6301

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Leu Ile Met Ser Gly Glu Ser Glu Val Ala Gln Arg Gln Asp Thr Leu
1      5      10      15
Asn Arg Tyr Leu Leu Tyr Phe Pro Arg Ser Lys Asn Val Ile Ser Asp
      20      25      30
Val His Ser Phe Thr Gly Lys Glu Ile Leu Ser Glu Pro Tyr Arg Tyr
      35      40      45
Thr Ile Arg Phe Thr Ser Pro Asp Leu Asn Ile Ala Ile Asn Ala Val
      50      55      60
Leu Asn Gln Arg Ala Glu Phe Ile Leu Arg Ala Pro Asn Leu Glu Ala
65      70      75      80
Ser Trp His Gly Gln Thr Ser Trp Leu Pro Val Arg Gln Ile Asn Gly
      85      90      95
Thr Ile Thr Gln Phe Ser Arg Leu Met Ser Ser Gly Asp Glu Ala Leu
      100     105     110
Tyr Glu Cys Val Leu Glu His Glu Leu Ala Leu Leu Asp Gln Asn Tyr
      115     120     125
Arg Ser Ala Val Tyr Met Asn Met Thr Val Pro Glu Leu Val Thr Lys
130     135     140
Leu Met Lys Asp Ser Gly His Phe Asp Gly Tyr Asn Ile Asp Phe Asp
145     150     155     160
Gln Leu Ser His Ser Tyr Pro Arg Arg Glu Met Ile Val Gln Trp Lys
      165     170     175

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Glu	Thr	Asp	Leu	Arg	Phe	Ile	Arg	Arg	Leu	Leu	Ala	Glu	Ile	Gly	Ile
			180					185					190		
Trp	Phe	Arg	Phe	Glu	Asn	His	Asn	Lys	Val	Lys	Thr	Glu	Thr	Val	Val
		195					200					205			
Ile	Phe	Gly	Asp	Ser	Ala	Arg	Arg	Tyr	Asn	Phe	Ser	Asp	Lys	Gln	Met
	210					215					220				
Pro	Tyr	Val	Arg	His	Ser	Gly	Met	Thr	Ser	Tyr	Ser	Glu	Tyr	Ile	Thr
225					230					235				240	
Asp	Leu	Glu	Asp	Gln	His	Gly	Leu	Ile	Pro	Lys	Asn	Val	Leu	Val	Arg
				245					250					255	
Thr	Tyr	Phe	Tyr	Arg	Asp	Pro	Gln	Ser	Pro	Gln	Thr	Asp	Lys	Thr	Val
			260					265					270		
Lys	Thr	Ser	Asp	Ile	Pro	Glu	Gly	Val	Thr	Thr	Gly	Gln	His	Tyr	His
		275					280					285			
Tyr	Ala	Asp	His	Tyr	Leu	Thr	Ala	Gly	Asp	Phe	His	Gly	Glu	Glu	Ala
	290					295				300					
Glu	Thr	Ala	Ala	Phe	Tyr	Ala	Arg	Leu	Arg	Tyr	Glu	Arg	Leu	Leu	Asn
305					310					315					320
Gly	Gln	Ser	Leu	Leu	Gly	Ala	Thr	Thr	Ser	Asp	Pro	Glu	Leu	Gln	Pro
				325					330					335	
Gly	Ile	Met	Phe	Tyr	Pro	Ser	Gly	Pro	Val	Pro	Asp	Gly	Phe	Lys	Ser
			340					345					350		
Gly	Phe	Val	Ile	Thr	Ala	Met	Thr	Ile	Arg	Gly	Ser	Arg	Ala	Glu	His
		355					360					365			
Tyr	Arg	Ala	Val	Leu	Ser	Gly	Ile	Pro	Tyr	Ile	Gln	Gly	Tyr	Thr	Phe
	370					375				380					
Arg	Pro	Glu	Tyr	Leu	Ser	Arg	Pro	Val	Ile	Ala	Gly	Thr	Val	Pro	Ala
385					390					395					400
Arg	Val	Lys	Ala	Ile	Gly	Gly	Asp	Lys	Thr	Tyr	Ala	Gly	Leu	Asp	Ala
			405						410					415	
Val	Gly	Arg	Tyr	Arg	Val	Lys	Phe	Asp	Phe	Asp	Leu	Asp	Glu	Lys	Arg
			420					425					430		
Val	Gly	Phe	Glu	Ser	Ala	Leu	Val	Arg	Leu	Gly	Arg	Pro	Tyr	Ala	Gly
		435					440					445			
Asp	Thr	Phe	Gly	Ile	His	Phe	Pro	Leu	Leu	Glu	Gly	Thr	Glu	Val	Ala
	450					455					460				
Val	Gly	Phe	Glu	Gly	Gly	Asp	Pro	Asp	Arg	Pro	Phe	Ile	Ala	His	Val
465					470					475					480
Met	His	Asp	Gly	Ser	His	Pro	Asp	Leu	Val	Thr	Asn	Arg	Asn	Asp	Thr
				485					490					495	
Arg	Asn	Val	Ile	Arg	Thr	Ala	Ala	Leu	Asn	Lys	Ile	Arg	Leu	Glu	Asp
			500					505					510		
Arg	Arg	Gly	Gln	Glu	His	Ile	Lys	Ile	Ala	Thr	Glu	Tyr	Gly	Lys	Gly
		515					520					525			
Gln	Val	Ser	Val	Gly	His	Leu	Val	Asp	Ala	Glu	Gly	Lys	Lys	Arg	Gly
	530					535					540				
Glu	Gly	Val	Glu	Ala	Arg	Thr	Asp	Asp	Trp	Met	Ala	Leu	Arg	Ala	Ala
545					550					555					560
Lys	Gly	Val	Met	Ile	Thr	Thr	Glu	Ala	Gln	Pro	Arg	Ala	Gly	Gly	Lys
			565						570					575	
Gln	Leu	Asp	Met	Thr	Ala	Ala	Ile	Ala	Gln	Leu	Glu	Lys	Ala	Leu	Ser
			580					585					590		
Leu	Ala	Met	Thr	Leu	Gln	Gln	Ser	Ala	Leu	Thr	Ala	Gly	Ala	Ser	Asn
		595					600					605			
Val	Glu	Thr	Asp	Arg	Gln	Asn	Ala	Leu	Ser	Gln	Thr	Leu	Ser	His	Leu
	610					615					620				
Ala	Glu	Pro	Gly	Ile	Leu	Ala	Tyr	Gly	Lys	Ser	Gly	Ile	Ala	Leu	Val
625					630					635					640
Thr	Pro	Asp	Ser	Leu	Gln	Leu	Ser	Ala	Gly	Lys	Asp	Leu	Ile	Ala	Thr
			645						650					655	
Ala	Gly	Gly	Asn	Ala	Ser	Val	Asn	Val	Val	Lys	Lys	Phe	Ser	Leu	Ala

				245					250				255				
Gly	Tyr	Leu	Leu	His	Gln	Phe	Leu	Ser	Pro	Ser	Ser	Asn	Gln	Arg	Thr		
			260					265					270				
Asp	Gln	Tyr	Gly	Gly	Ser	Val	Glu	Asn	Arg	Ala	Arg	Leu	Val	Leu	Glu		
		275					280					285					
Val	Val	Asp	Ala	Val	Cys	Asn	Glu	Trp	Ser	Ala	Asp	Arg	Ile	Gly	Ile		
		290				295						300					
Arg	Val	Ser	Pro	Ile	Gly	Thr	Phe	Gln	Asn	Val	Asp	Asn	Gly	Pro	Asn		
305					310					315					320		
Glu	Glu	Ala	Asp	Ala	Leu	Tyr	Leu	Ile	Glu	Glu	Leu	Ala	Lys	Arg	Gly		
				325						330					335		
Ile	Ala	Tyr	Leu	His	Met	Ser	Glu	Pro	Asp	Trp	Ala	Gly	Gly	Lys	Pro		
			340					345					350				
Tyr	Ser	Glu	Ala	Phe	Arg	Gln	Lys	Val	Arg	Glu	Arg	Phe	His	Gly	Val		
		355					360					365					
Ile	Ile	Gly	Ala	Gly	Ala	Tyr	Thr	Ala	Glu	Lys	Ala	Glu	Asp	Leu	Ile		
		370				375					380						
Gly	Lys	Gly	Leu	Ile	Asp	Ala	Val	Ala	Phe	Gly	Arg	Asp	Tyr	Ile	Ala		
385					390					395					400		
Asn	Pro	Asp	Leu	Val	Ala	Arg	Leu	Gln	Lys	Lys	Ala	Glu	Leu	Asn	Pro		
				405					410					415			
Gln	Arg	Pro	Glu	Ser	Phe	Tyr	Gly	Gly	Gly	Ala	Glu	Gly	Tyr	Thr	Asp		
			420					425					430				
Tyr	Pro	Ser	Leu														
			435														

<210> 6303

<211> 145

<212> PRT

<213> Enterobacter cloacae

<400> 6303

Ser	Ile	Pro	Leu	Val	Asn	Glu	Glu	Ile	Met	Arg	Leu	Leu	His	Thr	Met		
1				5					10					15			
Leu	Arg	Val	Gly	Asp	Leu	Gln	Arg	Ser	Ile	Asp	Phe	Tyr	Thr	Asn	Val		
			20					25					30				
Leu	Gly	Met	Lys	Leu	Leu	Arg	Thr	Ser	Glu	Asn	Pro	Glu	Tyr	Lys	Tyr		
		35					40					45					
Ser	Leu	Ala	Phe	Val	Gly	Tyr	Gly	Pro	Glu	Ser	Asp	Glu	Ala	Val	Ile		
	50				55					60							
Glu	Leu	Thr	Tyr	Asn	Trp	Gly	Val	Asp	Ser	Tyr	Glu	Leu	Gly	Thr	Ala		
65				70					75					80			
Tyr	Gly	His	Ile	Ala	Leu	Glu	Val	Gly	Asn	Ala	Ala	Glu	Ala	Cys	Glu		
			85					90						95			
Arg	Ile	Arg	Ser	Asn	Gly	Gly	Asn	Val	Thr	Arg	Glu	Ala	Gly	Pro	Val		
			100					105					110				
Lys	Gly	Gly	Thr	Thr	Val	Ile	Ala	Phe	Val	Glu	Asp	Pro	Asp	Gly	Tyr		
	115						120					125					
Lys	Ile	Glu	Leu	Ile	Glu	Ala	Lys	Asp	Ala	Gly	Arg	Gly	Leu	Gly	Asn		
	130					135					140						

'145

<210> 6304

<211> 223

<212> PRT

<213> Enterobacter cloacae

<400> 6304

Glu	Thr	Leu	Met	Ser	Asp	Asn	Ala	Gln	Phe	Thr	Gly	Leu	Cys	Asp	Arg		
1				5					10					15			

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Phe Arg Gly Phe Tyr Pro Val Val Ile Asp Val Glu Thr Ala Gly Phe
      20      25      30
Asn Ala Lys Thr Asp Ala Leu Leu Glu Ile Ala Ala Ile Thr Leu Lys
      35      40      45
Met Asp Glu Gln Gly Trp Leu Val Pro Asp Thr Thr Leu His Phe His
      50      55      60
Val Glu Pro Phe Glu Gly Ala Asn Leu Gln Pro Glu Ala Leu Ala Phe
      65      70      75      80
Asn Gly Ile Asp Pro Thr Asn Pro Leu Arg Gly Ala Val Ser Glu Tyr
      85      90      95
Glu Ala Leu His Ala Ile Phe Lys Met Val Arg Lys Gly Met Lys Glu
      100      105      110
Asn Asp Cys Ser Arg Ala Ile Met Val Ala His Asn Ala Thr Phe Asp
      115      120      125
His Ser Phe Thr Met Ala Ala Ala Glu Arg Ala Ser Leu Lys Arg Asn
      130      135      140
Pro Phe His Pro Phe Val Thr Phe Asp Thr Ala Ala Leu Ser Gly Leu
      145      150      155      160
Ala Leu Gly Gln Thr Val Leu Ser Lys Ala Cys Ile Thr Ala Gly Ile
      165      170      175
Ala Phe Asp Gly Thr Gln Ala His Ser Ala Leu Tyr Asp Thr Glu Arg
      180      185      190
Thr Ala Glu Leu Phe Cys Glu Ile Val Asn Arg Trp Lys Arg Leu Gly
      195      200      205
Gly Trp Pro Leu Pro Met Gly Asp Glu Ala Asp Leu Gln Ser
      210      215      220

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<210> 6305

<211> 283

<212> PRT

<213> Enterobacter cloacae

<400> 6305

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Leu Leu Leu Ile Leu Trp Ile Arg Ile Asp Arg Phe Cys Lys Ser His
1      5      10      15
Ala Gly Met His Cys Gly Leu His Leu Ser Gly Asp Cys Pro Val Ala
      20      25      30
Arg Ile Thr Lys Ile Ser Met Thr Leu Cys Ala Leu Leu Phe Thr Thr
      35      40      45
Leu Ser Phe Thr Pro Ala Ala Asn Ala Ser Glu Gln Ala Arg His Ser
      50      55      60
Ala Val Gln Lys Thr His Leu Ala Lys Ser Thr Glu Arg Lys Lys Lys
      65      70      75      80
Thr Thr Ser Lys Thr Val Lys Lys Lys Ile Thr Ala Gln Thr Lys Lys
      85      90      95
Thr Ala Ser Ser Lys Thr Lys Thr Leu Arg Ser Gly Thr His Lys Thr
      100      105      110
Thr Arg Thr Thr Ala Ser Leu Val Asn Glu Lys Cys Thr Val Arg Lys
      115      120      125
Gly His Lys Thr Lys Cys Ala Lys Val Thr Lys Leu Ala Asp Val His
      130      135      140
Lys Ala Arg Met Gln Lys Ala Gln Lys Thr Ala Met Asn Lys Leu Met
      145      150      155      160
Gly Gln Ile Gly Lys Pro Tyr Arg Trp Gly Gly Thr Ser Pro Arg Thr
      165      170      175
Gly Phe Asp Cys Ser Gly Leu Val Tyr Tyr Ala Tyr Lys Asp Leu Val
      180      185      190
Lys Phe Arg Ile Pro Arg Thr Ala Asn Glu Met Tyr His Leu Arg Asp
      195      200      205
Ala Ala Pro Val Asn Arg Gly Glu Leu Gln Asn Gly Asp Leu Val Phe
      210      215      220

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Phe	Arg	Thr	Gln	Gly	Arg	Gly	Thr	Ala	Asp	His	Val	Gly	Val	Tyr	Val
225					230				235						240
Gly	Asn	Gly	Lys	Phe	Ile	Gln	Ser	Pro	Arg	Ser	Gly	Gln	Asp	Ile	Gln
				245					250					255	
Ile	Thr	Ser	Leu	Ser	Glu	Asp	Tyr	Trp	Val	Arg	His	Tyr	Val	Gly	Ala
			260					265					270		
Arg	Arg	Val	Met	Thr	Pro	Lys	Thr	Ile	Arg						
		275					280								

<210> 6306

<211> 203

<212> PRT

<213> Enterobacter cloacae

<400> 6306

Ser	Lys	Gly	Met	Ser	Arg	His	Thr	Glu	His	Asp	Thr	Arg	Glu	His	Leu
1			5					10					15		
Leu	Ala	Thr	Gly	Glu	Arg	Leu	Cys	Met	His	Arg	Gly	Phe	Thr	Gly	Met
			20					25					30		
Gly	Leu	Ser	Glu	Leu	Leu	Lys	Thr	Ala	Glu	Val	Pro	Lys	Gly	Ser	Phe
			35				40					45			
Tyr	His	Tyr	Phe	Arg	Ser	Lys	Glu	Ala	Phe	Gly	Val	Ala	Met	Leu	Glu
	50					55					60				
Arg	His	Tyr	Ala	Ser	Tyr	His	Gln	Arg	Leu	Ala	Ala	His	Phe	Ala	Ser
65					70				75						80
Gly	Glu	Gly	Asp	Tyr	Arg	Asp	Arg	Val	Leu	Asn	Tyr	Tyr	Gln	Glu	Thr
			85					90					95		
Leu	Thr	Gln	Phe	Cys	Gln	Gln	Gly	Ile	Ile	Ser	Gly	Cys	Leu	Thr	Val
			100				105						110		
Lys	Leu	Ser	Ala	Glu	Val	Cys	Asp	Leu	Ser	Glu	Asp	Met	Arg	Thr	Ala
		115					120					125			
Met	Asp	Lys	Gly	Ala	Ser	Gly	Val	Ile	Ala	Leu	Leu	Ala	Gln	Ala	Leu
		130				135					140				
Glu	Ser	Gly	Arg	Asn	Glu	Lys	Thr	Leu	Ser	Phe	Ser	Gly	Asp	Pro	Leu
145					150					155					160
Thr	Gln	Ala	Gln	Val	Leu	Tyr	Ser	Leu	Trp	Leu	Gly	Ala	Asn	Leu	Gln
			165					170						175	
Ala	Lys	Met	Ser	Arg	Ser	Ala	Val	Pro	Leu	Glu	Ser	Ala	Leu	Ala	His
			180					185					190		
Val	Lys	Asn	Cys	Ile	Thr	Ala	Pro	Gly	Val						
		195					200								

<210> 6307

<211> 589

<212> PRT

<213> Enterobacter cloacae

<400> 6307

Gly	Arg	Asn	Thr	Cys	Leu	Trp	Ser	Arg	His	Asn	Lys	Met	Ala	Cys	Ser
1				5				10						15	
Ala	Thr	Asp	Val	Cys	His	Lys	Gln	Asp	Ile	Lys	Val	Ser	Leu	Ile	Phe
			20					25					30		
His	Ser	Tyr	Thr	Arg	Arg	Ile	Asp	Ile	Thr	Asn	Gly	Leu	Leu	Ile	Met
		35					40					45			
Trp	Phe	Ala	Lys	Lys	Leu	His	Cys	Asn	Asp	Ile	Lys	Phe	Thr	Leu	Gly
	50					55					60				
Cys	Ala	Phe	Phe	Phe	Thr	Val	Leu	Asn	Ala	Leu	Phe	Ile	Gln	Arg	Ser
65					70					75					80
Trp	Ser	Ile	Ile	Ala	Pro	Ala	His	Leu	His	Asp	Val	Leu	Phe	Ala	Ala
			85					90					95		
Ser	Val	Pro	Leu	Val	Leu	Phe	Cys	Gly	Trp	Val	Ile	Val	Phe	Ser	Leu

			100					105					110		
Leu	Asn	Ile	Pro	Tyr	Ile	Arg	Lys	Pro	Leu	Leu	Ile	Val	Leu	Thr	Leu
		115					120					125			
Gly	Cys	Ala	Ala	Ala	Thr	Trp	Phe	Met	Tyr	Thr	Tyr	Gly	Ala	Val	Ile
	130					135					140				
Asp	Gln	Asn	Met	Ile	Val	Asn	Val	Phe	Glu	Thr	Asn	Ser	Gln	Glu	Ala
145				150						155				160	
Thr	Ala	Leu	Val	Thr	Pro	Gln	Met	Ile	Leu	Trp	Leu	Val	Val	Ala	Gly
			165						170					175	
Leu	Val	Pro	Ser	Val	Val	Leu	Ala	Leu	Thr	Arg	Ile	Arg	Thr	Gly	Lys
		180					185						190		
Trp	Trp	Tyr	Ala	Leu	Leu	Thr	Arg	Phe	Ala	Ala	Met	Leu	Gly	Ala	Leu
	195					200					205				
Leu	Val	Ile	Ile	Leu	Val	Ala	Ser	Val	Phe	Tyr	Lys	Asp	Tyr	Ala	Ser
	210					215					220				
Leu	Phe	Arg	Asn	Asn	Lys	Ser	Ile	Val	Lys	Met	Val	Thr	Pro	Ala	Asn
225				230						235					240
Tyr	Val	Ser	Ala	Val	Val	Lys	Tyr	Ser	Lys	Met	Arg	Trp	Phe	Ala	Gly
			245						250					255	
Asp	Gln	Thr	Leu	Val	Arg	Ile	Gly	Glu	Asp	Ala	His	Lys	Gly	Ala	Leu
			260					265					270		
Ile	Ala	Ser	Gln	Arg	Lys	Lys	Thr	Val	Leu	Val	Val	Val	Val	Gly	Glu
	275						280					285			
Ala	Ser	Arg	Ala	Ala	Asn	Tyr	Ser	Leu	Asn	Gly	Tyr	Pro	Arg	Glu	Thr
	290					295					300				
Asn	Pro	Glu	Leu	Lys	Lys	Gln	Asp	Val	Ile	Asn	Phe	Pro	Arg	Ala	Ser
305				310						315					320
Ser	Cys	Gly	Thr	Glu	Thr	Ala	Val	Ser	Val	Pro	Cys	Met	Phe	Ser	Gly
			325						330					335	
Met	Thr	Arg	Lys	Lys	Tyr	Asp	Ala	Asp	Leu	Ala	His	His	Gln	Glu	Gly
			340					345					350		
Leu	Leu	Asp	Val	Leu	Asn	His	Ala	Gly	Phe	Asn	Leu	Leu	Trp	Arg	Asp
		355					360					365			
Asn	Asp	Gly	Gly	Cys	Lys	Gly	Ala	Cys	Asp	Arg	Val	Pro	His	Thr	Asp
	370					375					380				
Met	Thr	Gln	Trp	Lys	Leu	Asp	Gln	Phe	Cys	Lys	Asp	Lys	Ser	Cys	Ile
385				390						395					400
Asp	Asp	Val	Asn	Leu	Tyr	Arg	Leu	Asp	Asn	Val	Leu	Asp	Gly	Ile	Lys
			405						410					415	
Gln	Asp	Thr	Val	Leu	Val	Ile	His	Leu	Met	Gly	Ser	His	Gly	Pro	Ala
			420					425					430		
Tyr	Tyr	Lys	Arg	Tyr	Pro	Asp	Ser	Phe	Arg	Lys	Phe	Thr	Pro	Thr	Cys
		435					440					445			
Asp	Thr	Asn	Glu	Ile	Gln	Asp	Cys	Asp	His	Gln	Ser	Leu	Ile	Asn	Thr
</															

<210> 6308
 <211> 274
 <212> PRT
 <213> Enterobacter cloacae

<400> 6308
 Ile Tyr Pro Val Thr Ala Gln Arg Ser Gly His Ser Asp His Leu Ser
 1 5 10 15
 Gln Arg Arg Leu Leu Gly Ala Pro Leu Cys Gly Cys Ala Pro Arg Asp
 20 25 30
 Asp Ala Lys Asn His Pro Leu Ala Pro Ala Leu Pro Pro Leu Trp Gln
 35 40 45
 Gly Lys Phe Leu Phe Cys Ile Pro Phe Gln Phe Ala Ile Leu Ser Leu
 50 55 60
 Leu Ser Val Arg Leu Leu Ala Thr Tyr Lys Thr Ile Arg Arg Glu Ala
 65 70 75 80
 Met Ser Phe Glu Leu Pro Ala Leu Pro Tyr Ala Lys Asp Ala Leu Ala
 85 90 95
 Pro His Ile Ser Ala Glu Thr Leu Glu Tyr His Tyr Gly Lys His His
 100 105 110
 Gln Thr Tyr Val Thr Asn Leu Asn Asn Leu Ile Lys Gly Thr Asp Phe
 115 120 125
 Glu Gly Lys Thr Leu Glu Glu Ile Val Arg Ser Ser Asp Gly Gly Val
 130 135 140
 Phe Asn Asn Ala Ala Gln Val Trp Asn His Thr Phe Tyr Trp His Cys
 145 150 155 160
 Leu Ala Pro Asn Ala Gly Gly Glu Pro Asp Gly Glu Leu Ala Ala Ala
 165 170 175
 Ile Asn Ala Ala Phe Gly Ser Phe Ala Asp Phe Lys Ala Lys Phe Thr
 180 185 190
 Asp Ala Ala Val Lys Asn Phe Gly Ser Gly Trp Thr Trp Leu Val Lys
 195 200 205
 Glu Ala Asp Gly Lys Leu Ala Ile Val Ser Thr Ser Asn Ala Gly Thr
 210 215 220
 Pro Leu Thr Thr Ser Ala Thr Pro Leu Met Thr Val Asp Val Trp Glu
 225 230 235 240
 His Ala Tyr Tyr Ile Asp Tyr Arg Asn Ala Arg Pro Asn Tyr Leu Glu
 245 250 255
 His Phe Trp Ala Leu Val Asn Trp Glu Phe Val Ala Lys Asn Phe Ala
 260 265 270
 Ala

<210> 6309
 <211> 138
 <212> PRT
 <213> Enterobacter cloacae

<400> 6309
 Arg Arg Asn Tyr Leu Gly Gly Lys Phe Ala Asp Arg Ser Val Ser Gly
 1 5 10 15
 Thr Leu Lys Gly Phe Leu Thr Leu Leu Ile Val Ile Met Val Ala Ile
 20 25 30
 Pro Trp Leu Ala Arg Asn Glu Val Gly Ala Ala Ile Ala Met Val Val
 35 40 45
 Trp Gly Ala Ala Thr Phe Ala Val Val Pro Pro Leu Gln Met Arg Val
 50 55 60
 Met Arg Val Ala His Glu Ala Pro Gly Leu Ser Ser Val Asn Ile
 65 70 75 80
 Gly Ala Phe Asn Leu Gly Asn Ala Leu Gly Ala Ala Ala Gly Gly Ala

				85					90					95			
Val	Ile	Ser	Gly	Gly	Leu	Gly	Tyr	Ser	Phe	Val	Pro	Val	Met	Gly	Ala		
			100					105					110				
Ile	Ile	Ala	Ala	Leu	Gly	Leu	Leu	Leu	Val	Ile	Met	Ser	Gly	Arg	Lys		
		115					120					125					
Gln	Pro	Gln	Ala	Val	Cys	Thr	Ala	Glu									
	130					135											

<210> 6310

<211> 120

<212> PRT

<213> Enterobacter cloacae

<400> 6310

Arg	Lys	Gln	Asp	Met	Ser	Thr	Thr	Ile	Glu	Lys	Ile	Gln	Arg	Gln	Ile		
1				5					10					15			
Ala	Glu	Asn	Pro	Ile	Leu	Leu	Tyr	Met	Lys	Gly	Ser	Pro	Lys	Leu	Pro		
		20						25					30				
Ser	Cys	Gly	Phe	Ser	Ala	Gln	Ala	Val	Gln	Ala	Leu	Ser	Ala	Cys	Gly		
		35					40					45					
Glu	Arg	Phe	Ala	Tyr	Val	Asp	Ile	Leu	Gln	Asn	Pro	Asp	Ile	Arg	Ala		
	50					55					60						
Glu	Leu	Pro	Lys	Tyr	Ala	Asn	Trp	Pro	Thr	Phe	Pro	Gln	Leu	Trp	Val		
65					70					75					80		
Asp	Gly	Glu	Leu	Val	Gly	Gly	Cys	Asp	Ile	Leu	Ile	Glu	Met	Tyr	Gln		
				85				90						95			
Arg	Gly	Glu	Leu	Gln	Gln	Leu	Ile	Lys	Glu	Thr	Ala	Ala	Lys	Tyr	Lys		
			100					105					110				
Thr	Glu	Glu	Pro	Asp	Ala	Glu											
		115					120										

<210> 6311

<211> 211

<212> PRT

<213> Enterobacter cloacae

<400> 6311

Ser	Arg	Arg	Gly	Ser	Ala	Arg	Ala	Leu	Ser	Gly	Gly	Arg	Leu	His	Tyr		
1				5					10					15			
Lys	Ala	Cys	Arg	Leu	Pro	Ser	Pro	Ala	Arg	Thr	Cys	Ala	Asp	Arg	Arg		
		20						25					30				
Tyr	His	Val	Ser	Pro	Ala	Leu	Gln	Ser	Asp	Thr	Ala	Arg	Leu	Leu	Leu		
		35					40					45					
Arg	Ser	Asp	Arg	Cys	Arg	Arg	Ser	Gly	Lys	Tyr	Arg	Ser	Gly	Arg	His		
	50					55					60						
Glu	Tyr	Gln	Cys	Gly	Leu	Arg	Ser	Thr	His	Tyr	Arg	Gln	His	Pro	Pro		
65					70					75					80		
Leu	Gln	Ala	Pro	Asp	Ala	Arg	Gly	Phe	Gln	Arg	Cys	Arg	Arg	Thr	Gly		
				85				90						95			
Arg	Tyr	Ala	Gly	Trp	Lys	Lys	Gly	Thr	Gly	Thr	Asp	Ala	Ala	Gly	Asn		
		100					105						110				
Arg	Ala	Gln	Ser	Ala	Ala	Gln	Pro	Gly	Arg	Ser	Pro	Leu	His	Glu	Arg		
		115				120						125					
Trp	Arg	Arg	Pro	Asp	Gly	Asn	His	Ser	Gln	Tyr	Pro	Gly	Ser	Arg	Pro		
	130					135						140					
Ala	Pro	Ala	Arg	Val	Ala	Trp	Trp	Cys	Gln	Arg	Gly	Ser	His	Tyr	Arg		
145					150					155					160		
Phe	His	Arg	Ala	Gly	Lys	Cys	Gly	Tyr	Trp	Arg	Ser	Gly	Gln	Lys	Gln		
				165					170					175			
Lys	Pro	Ala	Pro	Asp	Arg	Gln	Ala	Gly	Cys	Cys	Cys	Val	Arg	Tyr	Asp		
			180					185						190			

Arg Cys Ala Thr Ala Glu Pro Gln Tyr Gly His Leu Gln His Glu His
 195 200 205
 Leu Arg
 210

<210> 6312

<211> 77

<212> PRT

<213> Enterobacter cloacae

<400> 6312

Gly Asn Ile Met Lys Arg Phe Leu Ser Val Ala Leu Leu Ala Ala Leu
 1 5 10 15
 Leu Ala Gly Cys Ala His Asp Ser Pro Cys Val Pro Val Tyr Asp Asp
 20 25 30
 Gln Gly Arg Leu Val His Thr Asn Thr Cys Met Lys Gly Thr Thr Gln
 35 40 45
 Asp Asn Trp Glu Thr Ala Gly Ala Ile Ala Gly Gly Ala Ala Ala Ile
 50 55 60
 Ala Gly Leu Thr Leu Gly Ile Val Ala Leu Thr Lys
 65 70 75

<210> 6313

<211> 991

<212> PRT

<213> Enterobacter cloacae

<400> 6313

Arg Pro Tyr Pro Leu Ser Ile Cys Ala Pro Ala Val Lys Ile Thr Gln
 1 5 10 15
 Val Ile Glu Gln Asn Met Asn Gly Ile Asp Asn Leu Met Tyr Met Ser
 20 25 30
 Ser Thr Ser Asp Ser Ala Gly Asn Val Thr Ile Thr Leu Thr Phe Glu
 35 40 45
 Ser Gly Thr Asp Pro Asp Ile Ala Gln Val Gln Val Gln Asn Lys Leu
 50 55 60
 Gln Leu Ala Met Pro Leu Leu Pro Gln Glu Val Gln Gln Gln Gly Ile
 65 70 75 80
 Gly Val Glu Lys Ser Ser Ser Ser Phe Leu Val Ala Gly Phe Val
 85 90 95
 Ser Asp Asn Lys Asn Leu Thr Gln Asp Asp Ile Ser Asp Tyr Val Ala
 100 105 110
 Ser Asn Val Lys Asp Ala Ile Ser Arg Thr Ser Gly Val Gly Asp Val
 115 120 125
 Gln Leu Phe Gly Ala Gln Tyr Ala Met Arg Ile Trp Leu Asp Ser Asn
 130 135 140
 Ala Met Asn Lys Tyr Gln Leu Thr Pro Leu Asp Ile Ile Asn Gln Leu
 145 150 155 160
 Lys Thr Gln Asn Asp Gln Ile Ala Ala Gly Gln Leu Gly Gly Thr Pro
 165 170 175
 Ser Val Pro Gly Gln Gln Leu Asn Ala Ser Ile Ile Ala Gln Thr Arg
 180 185 190
 Leu Lys Ser Pro Glu Glu Phe Gly Arg Val Thr Leu Lys Val Asn Gln
 195 200 205
 Asp Gly Ser Met Val His Leu Lys Asp Val Ala Arg Ile Glu Leu Gly
 210 215 220
 Gly Glu Asn Tyr Asn Met Val Thr Lys Ile Asn Gly Gln Ala Ala Thr
 225 230 235 240
 Gly Leu Gly Ile Lys Leu Ala Thr Gly Ala Asn Ala Leu Asp Thr Ala
 245 250 255
 Ala Ala Ile Lys Ser Lys Leu Ala Gln Leu Gln Pro Phe Phe Pro Gln

			260					265					270			
Gly	Leu	Lys	Val	Val	Tyr	Pro	Tyr	Asp	Thr	Thr	Pro	Phe	Val	Lys	Ile	
		275					280					285				
Ser	Ile	His	Glu	Val	Val	Lys	Thr	Leu	Phe	Glu	Ala	Ile	Val	Leu	Val	
	290					295					300					
Phe	Leu	Val	Met	Tyr	Leu	Phe	Leu	Gln	Asn	Leu	Arg	Ala	Thr	Leu	Ile	
305				310						315					320	
Pro	Thr	Ile	Ala	Val	Pro	Val	Val	Leu	Leu	Gly	Thr	Phe	Ala	Val	Leu	
				325						330						
Ala	Ala	Phe	Gly	Phe	Ser	Ile	Asn	Thr	Leu	Thr	Met	Phe	Gly	Met	Val	
			340					345					350			
Leu	Ala	Ile	Gly	Leu	Leu	Val	Asp	Asp	Ala	Ile	Val	Val	Val	Glu	Asn	
		355					360					365				
Val	Glu	Arg	Val	Met	Val	Glu	Asp	Lys	Leu	Pro	Pro	Lys	Glu	Ala	Thr	
	370					375					380					
Gln	Lys	Ser	Met	Glu	Gln	Ile	Gln	Gly	Ala	Leu	Val	Gly	Ile	Ala	Met	
385				390						395					400	
Val	Leu	Ser	Ala	Val	Phe	Ile	Pro	Met	Ala	Phe	Phe	Gly	Gly	Ser	Thr	
				405					410					415		
Gly	Ala	Ile	Tyr	Arg	Gln	Phe	Ser	Leu	Thr	Ile	Val	Ser	Ala	Met	Ala	
			420					425					430			
Leu	Ser	Val	Leu	Val	Ala	Leu	Ile	Leu	Thr	Pro	Ala	Leu	Cys	Ala	Thr	
		435					440					445				
Leu	Leu	Lys	Pro	Val	Ser	Ser	Glu	His	His	Glu	Lys	Lys	Gly	Gly	Phe	
	450					455					460					
Phe	Gly	Trp	Phe	Asn	Ala	Leu	Phe	Asp	Lys	Ser	Val	Glu	His	Tyr	Ser	
465				470						475					480	
Asn	Ser	Val	Ser	Gly	Ile	Leu	Arg	Lys	Thr	Gly	Arg	Tyr	Leu	Leu	Val	
				485					490					495		
Tyr	Val	Ile	Ile	Val	Gly	Gly	Met	Ala	Val	Leu	Phe	Leu	Arg	Leu	Pro	
			500					505					510			
Ser	Ser	Phe	Leu	Pro	Glu	Glu	Asp	Gln	Gly	Val	Phe	Met	Thr	Met	Val	
		515					520					525				
Gln	Leu	Pro	Ala	Gly	Ala	Thr	Gln	Met	Arg	Thr	Gln	Gln	Val	Leu	Asp	
	530					535					540					
Gln	Val	Gln	Asp	Tyr	Tyr	Leu	Thr	Lys	Glu	Lys	Ala	Asn	Val	Glu	Ser	
545				550						555					560	
Val	Phe	Thr	Val	Asn	Gly	Phe	Ser	Phe	Ser	Gly	Gln	Gly	Gln	Asn	Ser	
				565					570					575		
Gly	Ile	Ala	Phe	Val	Ser	Leu	Lys	Pro	Trp	Glu	Glu	Arg	Pro	Gly	Lys	
			580					585					590			
Glu	Asn	Gly	Val	Glu	Ala	Ile	Val	Ser	Arg	Ala	Thr	Lys	Ala	Phe	Ser	
		595					600					605				
Gln	Ile	Lys	Asp	Gly	Leu	Val	Phe	Pro	Phe	Asn	Leu	Pro	Ala	Ile	Ile	
	610					615										

Phe Ser Ala Phe Ser Ser Ser His Trp Val Tyr Gly Ser Pro Arg Leu
 755 760 765
 Glu Arg Tyr Asn Gly Met Pro Ser Met Glu Ile Leu Gly Glu Ser Ala
 770 775 780
 Pro Gly Lys Ser Thr Gly Glu Ala Met Ala Leu Met Glu Asn Leu Ala
 785 790 795 800
 Ser Lys Leu Pro Ser Gly Ile Gly Tyr Asp Trp Thr Gly Met Ser Tyr
 805 810 815
 Gln Glu Arg Leu Ser Gly Asn Gln Ala Pro Ala Leu Tyr Ala Ile Ser
 820 825 830
 Leu Ile Val Val Phe Leu Cys Leu Ala Ala Leu Tyr Glu Ser Trp Ser
 835 840 845
 Ile Pro Phe Ser Val Met Leu Val Val Pro Leu Gly Val Ile Gly Ala
 850 855 860
 Leu Leu Ala Ala Ser Met Arg Gly Leu Asn Asn Asp Val Tyr Phe Gln
 865 870 875 880
 Val Gly Leu Leu Thr Thr Ile Gly Leu Ser Ala Lys Asn Ala Ile Leu
 885 890 895
 Ile Val Glu Phe Ala Lys Asp Leu Met Asp Lys Glu Gly Lys Gly Ile
 900 905 910
 Ile Glu Ala Thr Leu Glu Ala Ser Arg Met Arg Leu Arg Pro Ile Leu
 915 920 925
 Met Thr Ser Leu Ala Phe Ile Leu Gly Val Met Pro Leu Val Ile Ser
 930 935 940
 Ser Gly Ala Gly Ser Gly Ala Gln Asn Ala Val Gly Thr Gly Val Met
 945 950 955 960
 Gly Gly Met Leu Ser Ala Thr Leu Leu Ala Ile Phe Phe Val Pro Val
 965 970 975
 Phe Phe Val Val Arg Arg Arg Phe Thr Lys His Lys Asp
 980 985 990

<210> 6314

<211> 165

<212> PRT

<213> Enterobacter cloacae

<400> 6314

Leu Ser Leu Ser Pro Ala Thr Leu Val Val Trp Phe Arg Asn Ala Gly
 1 5 10 15
 Thr Leu Ser Met Lys Lys Ile Ala Ile Ile Gly Ser Gly Pro Thr Gly
 20 25 30
 Ile Tyr Thr Phe Tyr Ser Leu Leu Asn Asn Ala Ala Pro Leu Ser Ile
 35 40 45
 Thr Val Phe Glu Lys Ala Asp Gln Pro Gly Val Gly Met Pro Tyr Ser
 50 55 60
 Asp Glu Asp Asn Ser Arg Leu Met Leu Ala Asn Ile Ala Ser Ile Glu
 65 70 75 80
 Ile Pro Pro Ile Phe Ile Thr Tyr Leu Asp Trp Leu Lys Gln Gln Asn
 85 90 95
 Ala Ala Arg Leu Ala Arg Tyr Asn Val Asp Ser Glu Lys Leu His Asp
 100 105 110
 Arg Gln Phe Leu Pro Arg Ile Leu Leu Gly Glu Tyr Phe His Asp Arg
 115 120 125
 Phe Leu Ala Gly Ala Ala Glu Ala Asn Asn Ala Gly Phe His Ile Glu
 130 135 140
 Val His Pro Thr Ala Glu Ile Pro Asp Ile Asn Ala Asp Ala Asn Ala
 145 150 155 160
 Trp Pro Phe His
 165

<210> 6315

<211> 106
 <212> PRT
 <213> Enterobacter cloacae

<400> 6315

Thr	Leu	Ala	Asp	Gly	Cys	Ala	His	Ile	Ala	Gln	Lys	Ser	Ile	Phe	Phe
1				5					10					15	
Arg	Arg	Ile	Leu	Arg	Ser	Glu	Lys	His	Met	Thr	Leu	Asn	Ser	Asn	His
			20					25					30		
Ser	Asp	Trp	Arg	Asp	Met	Leu	Met	Lys	Arg	Gln	Asp	Ile	Asn	Ala	Leu
		35					40					45			
Lys	Asn	Phe	Asp	Phe	Leu	Ala	Arg	Ser	Phe	Ala	Arg	Met	Tyr	Ala	Gln
	50					55					60				
Gly	Gln	Pro	Val	Asp	Ile	Asp	Ala	Val	Thr	Gly	Asn	Met	Ser	Asn	Lys
65					70					75					80
Gln	Gln	Ala	Trp	Phe	Arg	Glu	Arg	Tyr	Asp	His	Tyr	Arg	Lys	Gln	Ala
				85					90					95	
Glu	Arg	Ala	Arg	Val	Ile	Glu	Leu	Arg							
				100				105							

<210> 6316
 <211> 174
 <212> PRT
 <213> Enterobacter cloacae

<400> 6316

His	Leu	Phe	Leu	Leu	Lys	Lys	Gly	Ile	Ala	Met	Ala	Asp	Ser	Phe	Gln
1				5					10					15	
Asn	Glu	Val	Pro	Lys	Ala	Arg	Ile	Asn	Leu	Lys	Leu	Ala	Leu	His	Thr
			20					25					30		
Gly	Gly	Ala	Gln	Lys	Lys	Ile	Glu	Leu	Pro	Leu	Lys	Leu	Leu	Thr	Val
		35					40					45			
Gly	Asp	Phe	Ser	Asn	Gly	Lys	Glu	Asn	Arg	Pro	Leu	Ser	Glu	Arg	Glu
	50					55					60				
Lys	Ile	Asn	Val	Asn	Lys	Asn	Asn	Phe	Asn	Ser	Val	Leu	Ser	Glu	Phe
65					70					75					80
Asn	Pro	Glu	Val	Asn	Leu	Thr	Val	Pro	Asn	Thr	Met	Ala	Gly	Asp	Gly
				85					90					95	
Ser	Glu	Glu	Ser	Ile	Lys	Leu	Asn	Phe	Ser	Asp	Ile	Lys	Asp	Phe	Glu
			100					105					110		
Pro	Glu	Gln	Val	Ala	Arg	Gln	Ile	Pro	Gln	Leu	Arg	Ala	Met	Leu	Ala
		115					120					125			
Met	Arg	Asn	Leu	Leu	Arg	Asp	Leu	Lys	Ser	Asn	Leu	Leu	Asp	Asn	Ala
		130				135					140				
Thr	Phe	Arg	Lys	Glu	Leu	Glu	Lys	Ile	Leu	Lys	Asp	Pro	Ala	Leu	Ser
145					150					155					160
Gln	Glu	Leu	Arg	Asp	Glu	Met	Ser	Ala	Leu	Ala	Pro	Lys			
				165					170						

<210> 6317
 <211> 146
 <212> PRT
 <213> Enterobacter cloacae

<400> 6317

Gly	Asp	Ala	Leu	Ser	Met	Met	Thr	Ser	Ile	Met	Asp	Thr	Asp	Met	Lys
1				5					10					15	
Thr	Arg	Ile	Leu	Leu	Leu	Thr	Val	Ser	Val	Leu	Phe	Asn	Met	Gln	Ala
			20					25					30		
Asp	Ala	Ala	Arg	Gly	Arg	Gln	Pro	Cys	Ser	Gly	Ser	Lys	Gly	Gly	Ile
		35					40					45			

Ala His Cys Thr Ser Asp Gly Arg Phe Val Cys Asn Asp Gly Ser Leu
 50 55 60
 Ser Gln Ser Lys Arg Phe Cys Ser Gly Tyr Gly Ala Ser Glu Leu Pro
 65 70 75 80
 Arg Gln Val Lys Pro Ser Pro Ser Ala Arg Lys Ala Gln Thr Lys Lys
 85 90 95
 Arg Ile Ala Val Lys Gly Gln Glu Gln Arg Val Val Glu Asn Asn Ala
 100 105 110
 Gln Phe Asp Thr Gln Pro Arg Gln Pro Thr Cys Ala Pro Leu Tyr Met
 115 120 125
 Ala Asn Lys Pro Gly Phe Thr His Leu Pro Ile Cys Ser Gly Asn Gln
 130 135 140
 Tyr
 145

<210> 6318

<211> 181

<212> PRT

<213> Enterobacter cloacae

<400> 6318

Lys Ala Gly Lys Glu His Leu Pro Ile Arg His Glu Leu Phe Glu Tyr
 1 5 10 15
 Ser Phe Leu Leu Phe Arg Arg Tyr Met Met Thr Leu Arg Thr Phe Pro
 20 25 30
 Val Leu Asn Asp Leu Ser Asp Ser Leu Phe Ala Asp Arg Phe Asn Arg
 35 40 45
 Ile Asp Arg Leu Phe Ser Gln Leu Thr Gly Ser Thr Pro Leu Pro Ser
 50 55 60
 Thr Pro Ser Tyr Asn Ile Arg Arg Leu Gly Asp Asn Arg Tyr Glu Leu
 65 70 75 80
 Thr Leu Ser Val Pro Gly Trp Lys Glu Ser Glu Leu Glu Ile Glu Thr
 85 90 95
 Val Gly Gly Gln Leu Asn Ile Ser Gly Lys Arg Glu Glu Glu Lys Thr
 100 105 110
 Glu Asn Gly Glu Glu Gly Trp Ile His Arg Gly Ile Ser Arg Ser Asp
 115 120 125
 Phe Arg Ala Ser Tyr Ser Leu Pro Glu His Val Lys Val Thr Gly Ala
 130 135 140
 Ser Leu Glu Asn Gly Leu Leu Ala Ile Glu Leu His Gln Asp Ile Pro
 145 150 155 160
 Glu Glu Glu Lys Pro Gln Arg Ile Ala Ile Asn Asn Asn Pro Ala Ile
 165 170 175
 Glu His Lys Pro
 180

<210> 6319

<211> 223

<212> PRT

<213> Enterobacter cloacae

<400> 6319

Ile Thr Trp Gly Phe Ile Met Phe Asn Glu Val His Ser Leu Pro Gly
 1 5 10 15
 His Thr Leu Leu Leu Ile Thr Lys Pro Ser Leu Gln Ala Thr Ala Leu
 20 25 30
 Leu Gln His Leu Lys Gln Cys Leu Ser Leu Asn Gly Lys Leu His Asn
 35 40 45
 Ile Gln Arg Ser Phe Asp Asp Ile Ala Ser Gly Ser Ile Ile Leu Leu
 50 55 60
 Asp Met Met Glu Ala Asp Lys Lys Leu Ile His Tyr Trp Gln Asp Asn

65					70					75					80
Leu	Ser	Arg	Lys	Asn	Asn	Asn	Ile	Arg	Val	Leu	Leu	Leu	Asn	Thr	Pro
				85					90					95	
Asp	Glu	Tyr	Pro	Phe	Arg	Glu	Ile	Glu	Ser	Trp	Pro	His	Ile	Asn	Gly
			100					105					110		
Val	Phe	Tyr	Val	Thr	Glu	Glu	Glu	Asn	Arg	Val	Val	Glu	Gly	Leu	Gln
		115					120					125			
Gly	Ile	Leu	Arg	Gly	Glu	Cys	Tyr	Phe	Ser	Gln	Lys	Leu	Ala	Ser	Tyr
	130					135					140				
Leu	Ile	Thr	His	Ser	Gly	Asn	Tyr	Arg	Tyr	Asn	Ser	Ser	Glu	Ser	Ala
145					150					155					160
Leu	Leu	Thr	His	Arg	Glu	Lys	Glu	Ile	Leu	Asn	Lys	Leu	Arg	Ile	Gly
				165					170					175	
Ala	Ser	Asn	Ile	Glu	Ile	Ala	Arg	Ser	Leu	Phe	Ile	Ser	Glu	Asn	Thr
			180					185					190		
Val	Lys	Thr	His	Leu	Tyr	Asn	Leu	Phe	Lys	Lys	Ile	Ala	Val	Lys	Asn
		195				200						205			
Arg	Thr	Gln	Ala	Val	Ser	Trp	Ala	Asn	Asp	Asn	Leu	Arg	Arg		
	210					215					220				

<210> 6320

<211> 150

<212> PRT

<213> Enterobacter cloacae

<400> 6320

Val	Leu	Thr	Thr	Ile	Pro	Ile	Ser	Glu	Ala	Val	Met	Arg	Leu	Ala	His
1				5					10					15	
Thr	Val	Ile	Ser	Leu	Met	Leu	Ile	Ala	Pro	Leu	Ser	Trp	Ala	Gly	Asn
			20					25					30		
Met	Thr	Phe	Gln	Phe	Arg	Asn	Pro	Asn	Phe	Gly	Gly	Asn	Pro	Asn	Asn
		35				40						45			
Gly	Ala	Phe	Met	Leu	Asn	Gln	Ala	Gln	Ala	Gln	Asn	Ser	Tyr	Lys	Asp
	50					55					60				
Pro	Ser	Tyr	Asp	Asp	Asp	Phe	Gly	Ile	Glu	Thr	Pro	Ser	Ala	Leu	Asp
65					70				75					80	
Asn	Phe	Thr	Gln	Ala	Ile	Gln	Ser	Gln	Ile	Leu	Gly	Gly	Leu	Leu	Thr
				85					90					95	
Asn	Ile	Asn	Thr	Gly	Lys	Pro	Gly	Arg	Met	Val	Thr	Asn	Asp	Phe	Ile
			100					105					110		
Val	Asp	Ile	Ala	Asn	Lys	Asp	Gly	Gln	Leu	Gln	Leu	Asn	Val	Thr	Asp
		115					120					125			
Arg	Lys	Thr	Gly	Lys	Thr	Ser	Thr	Ile	Gln	Val	Ser	Gly	Leu	Gln	Thr
	130					135						140			
Ser	Ser	Thr	Asp	Phe											
145						150									

<210> 6321

<211> 150

<212> PRT

<213> Enterobacter cloacae

<400> 6321

Leu	Leu	Lys	Ile	Ala	Arg	Arg	Arg	Cys	Arg	Gly	Gln	Thr	Ile	Thr	Ser
1				5					10					15	
Gly	Val	Asn	Ser	Met	Lys	Arg	Thr	Leu	Ser	Trp	Ile	Ala	Ala	Ala	Gly
			20					25					30		
Ile	Met	Leu	Ala	Ala	Gly	Asn	Leu	Gln	Ala	Val	Glu	Val	Glu	Val	Pro
		35					40					45			
Gly	Leu	Leu	Thr	Asp	His	Thr	Val	Thr	Ser	Val	Gly	His	Asp	Phe	Tyr
	50					55					60				

Arg Ala Phe Ser Asp Lys Trp Glu Ser Asp Tyr Pro Gly Asn Leu Thr
 65 70 75 80
 Ile Asn Glu Arg Pro Ser Ala Arg Trp Gly Ser Trp Ile Thr Ile Thr
 85 90 95
 Ala Asn Gln Asp Val Ile Tyr Gln Thr Phe Leu Phe Pro Thr Lys Arg
 100 105 110
 Asp Phe Asp Gln Asn Val Ala Phe Ala Leu Ala Gln Thr Glu Glu Ala
 115 120 125
 Ile Asn Arg Leu Gln Leu Asp Lys Ala Leu Leu Ser Thr Gly Asp Leu
 130 135 140
 Ala Lys Asp Glu Phe
 145 150

<210> 6322

<211> 289

<212> PRT

<213> Enterobacter cloacae

<400> 6322

Phe Leu Asn Asn Pro Glu Ile Arg Thr Ile Ile Met Gln Arg Phe Phe
 1 5 10 15
 Ile Leu Val Ala Val Cys Leu Leu Ser Gly Cys Leu Thr Ala Pro Pro
 20 25 30
 Lys Glu Ala Ala Lys Pro Thr Leu Met Pro Arg Ala Gln Ser Tyr Arg
 35 40 45
 Asp Leu Thr His Leu Pro Val Pro Thr Gly Lys Ile Phe Val Ser Val
 50 55 60
 Tyr Asn Ile Gln Asp Glu Thr Gly Gln Phe Lys Pro Tyr Pro Ala Ser
 65 70 75 80
 Asn Phe Ser Thr Ala Val Pro Gln Ser Ala Thr Ala Met Leu Val Thr
 85 90 95
 Ala Leu Lys Asp Ser Arg Trp Phe Ile Pro Leu Glu Arg Gln Gly Leu
 100 105 110
 Gln Asn Leu Leu Asn Glu Arg Lys Ile Ile Arg Ala Ala Gln Glu Asn
 115 120 125
 Gly Thr Val Gly Val Asn Asn Arg Met Pro Leu Gln Ser Leu Thr Ala
 130 135 140
 Ala Asn Ile Met Val Glu Gly Ser Ile Ile Gly Tyr Glu Ser Asn Val
 145 150 155 160
 Lys Ser Gly Gly Ala Gly Ala Arg Tyr Phe Gly Ile Gly Ala Asp Thr
 165 170 175
 Gln Tyr Gln Leu Asp Gln Ile Ala Val Asn Leu Arg Val Val Asn Val
 180 185 190
 Ser Thr Gly Glu Ile Leu Ser Ser Val Thr Thr Ser Lys Thr Ile Leu
 195 200 205
 Ser Tyr Glu Val Gln Ala Gly Val Phe Arg Phe Ile Asp Tyr Gln Arg
 210 215 220
 Leu Leu Glu Gly Glu Ile Gly Tyr Thr Ser Asn Glu Pro Val Met Leu
 225 230 235 240
 Cys Leu Met Ser Ala Ile Glu Thr Gly Val Ile Phe Leu Ile Asn Asp
 245 250 255
 Gly Ile Asp Arg Gly Leu Trp Asp Leu Gln Asn Lys Ser Asp Val Ser
 260 265 270
 Asn Ala Val Leu Val Lys Tyr Arg Glu Met Ser Val Pro Pro Glu Ser
 275 280 285

<210> 6323

<211> 189

<212> PRT

<213> Enterobacter cloacae

<400> 6323

```

Arg Asn Lys Asn Met Asn Glu Phe Ser Ile Leu Cys Arg Val Leu Gly
1          5          10          15
Thr Leu Tyr Tyr Arg Gln Pro Gln Asp Pro Leu Leu Val Pro Leu Phe
20          25          30
Thr Leu Ile Arg Glu Gly Lys Leu Ala Gln Ser Trp Pro Leu Glu Gln
35          40          45
Asp Glu Leu Leu Glu Arg Leu Gln Lys Ser Cys Asp Met Gln Gln Ile
50          55          60
Ser Thr Asp Tyr Asn Ala Leu Phe Val Gly Glu Glu Cys Arg Val Ser
65          70          75          80
Pro Tyr Arg Ser Ala Trp Gln Glu Gly Ala Thr Glu Ala Glu Val Arg
85          90          95
Ala Phe Leu Ser Glu Arg Gly Met Pro Leu Thr Asp Met Pro Ala Asp
100          105          110
His Ile Gly Thr Leu Leu Leu Ala Ala Ser Trp Ile Glu Asp Asn Ala
115          120          125
Gly Asp Asp Glu Asn Glu Ala Ile Glu Thr Leu Phe Glu Thr Tyr Leu
130          135          140
Leu Pro Trp Val Gly Thr Phe Leu Gly Lys Val Glu Ala His Ala Thr
145          150          155          160
Ser Pro Phe Trp Arg Thr Leu Ala Pro Leu Thr Arg Asp Ala Ile Ala
165          170          175
Ala Met Trp Asp Glu Leu Glu Glu Glu Asn Glu Glu
180          185

```

<210> 6324

<211> 193

<212> PRT

<213> Enterobacter cloacae

<400> 6324

```

Leu Glu Ser Gln Lys Ser Cys Asn Asp Thr Phe Gln Leu Ala Arg Asn
1          5          10          15
Val Leu Leu Ile Ser Phe Leu Trp Cys Ala Ser Ala Lys Met Arg Thr
20          25          30
Met Asn Ile Leu Leu Cys Ile Ala Ile Thr Thr Gly Ile Leu Ser Gly
35          40          45
Leu Trp Ser Trp Val Ala Val Ser Leu Gly Leu Leu Ser Trp Ala Gly
50          55          60
Phe Leu Gly Cys Thr Ala Tyr Phe Ala Cys Pro Gln Gly Gly Leu Lys
65          70          75          80
Gly Leu Phe Ile Ser Gly Cys Thr Leu Leu Ser Gly Val Val Trp Ala
85          90          95
Leu Val Ile Met Lys Gly Ser Ala Leu Ala Pro His Val Glu Ile Leu
100          105          110
Gly Tyr Ala Met Thr Gly Ile Val Ala Phe Leu Met Cys Val Gln Ala
115          120          125
Lys His Leu Leu Leu Ser Phe Val Pro Gly Thr Phe Met Gly Ala Cys
130          135          140
Ala Thr Phe Ala Gly Gln Gly Asp Trp Lys Leu Val Val Pro Ser Leu
145          150          155          160
Met Leu Gly Leu Leu Phe Gly Tyr Ala Met Lys Asn Ser Gly Leu Trp
165          170          175
Leu Ala Ala Arg Arg Glu Lys Ser Gln Ser Val Pro Ala Val Ser Lys
180          185          190

```

<210> 6325
 <211> 267
 <212> PRT
 <213> Enterobacter cloacae

<400> 6325

```

Arg Ile Ala Gln Leu Glu Gly Arg Leu Gly Val Arg Leu Ile Gln Arg
1      5      10      15
Thr Thr Arg Gln Phe Ala Val Thr Glu Val Gly Gln Thr Phe Tyr Gln
20      25      30
His Cys Lys Ala Met Leu Val Glu Ala Glu Ala Glu Ala Val
35      40      45
Ala Ala Leu Gln Asp Glu Pro Arg Gly Met Val Arg Ile Thr Cys Pro
50      55      60
Val Thr Leu Leu His Val His Val Gly Pro Met Leu Ala Arg Phe Met
65      70      75      80
Ala Arg Tyr Pro Gly Ile Asn Leu Gln Leu Glu Ala Thr Asn Arg Arg
85      90      95
Val Asp Leu Val Ala Glu Gly Val Asp Val Ala Ile Arg Val Arg Pro
100     105     110
Arg Pro Phe Asp Asp Ser Glu Leu Val Leu Arg Val Leu Ala Asp Arg
115     120     125
Gly His Cys Leu Val Ala Gly Pro Ala Leu Ile Glu Arg Met Gly Asn
130     135     140
Pro Ala Met Pro Ser Glu Leu Ser Glu Trp Pro Gly Leu Ser Met Gly
145     150     155     160
Ala Gly Lys His Leu His Lys Trp Glu Leu Asn Gly Pro Glu Gly Ala
165     170     175
Lys Ala Glu Ile His Phe Thr Pro Arg Leu Val Thr Thr Asp Met Leu
180     185     190
Ala Leu Arg Glu Ala Ala Met Ala Gly Val Gly Val Val Gln Leu Pro
195     200     205
Ile Leu Met Val Lys Asp Gln Leu Ala Ser Gly Glu Leu Val Arg Val
210     215     220
Leu Asn Ala Trp Glu Pro Arg Arg Glu Val Ile His Ala Val Tyr Pro
225     230     235     240
Ser Arg Arg Gly Leu Leu Pro Ser Val Arg Thr Leu Val Asp Phe Leu
245     250     255
Thr Glu Glu Tyr Ala Lys Met Val Glu Asp
260     265

```

<210> 6326
 <211> 145
 <212> PRT
 <213> Enterobacter cloacae

<400> 6326

```

Leu Phe Val Gly Arg Val Ser Val Ala Pro Pro Asp Thr Ile Thr Ala
1      5      10      15
Gly Ala Ala Lys Phe Glu Ser Pro Thr Gly Val Gln His Val Lys Lys
20      25      30
Lys Pro Ala Phe Ser Cys Glu Leu Phe Phe Lys Tyr Gly Gly Glu Gly
35      40      45
Gly Ile Asp Ser Leu Arg Ser Pro Phe Gly Gln Pro Val Arg Tyr Ala
50      55      60
Leu Ser Leu Ser Asn Trp Leu Ser Pro Val Ala Glu Pro Arg Ser Gly
65      70      75      80
Gly Leu Ile Pro Pro Tyr Glu Asn Ile Lys Glu Lys Ser Pro Tyr Phe
85      90      95
Arg Thr Ser Ser His His Glu Tyr Gly Gly Glu Gly Gly Ile Arg Thr
100     105     110

```

Pro Asp Thr Leu Pro Tyr Thr His Phe Pro Gly Val Leu Leu Gln Pro
 115 120 125
 Leu Gly His Leu Thr Ile Leu Ser Ser Arg Cys Cys Arg Asp Gly Arg
 130 135 140

145

<210> 6327

<211> 317

<212> PRT

<213> Enterobacter cloacae

<400> 6327

Lys Ala Met Thr Met Asp Ile Ile Phe Tyr His Pro Thr Phe Asp Thr
 1 5 10 15
 Ala Tyr Trp Ile Asn Ala Leu Thr Ala Ala Leu Pro Gly Ala Arg Val
 20 25 30
 Arg Glu Trp Lys Gln Gly Asp Asn Glu His Ala Asp Tyr Ala Leu Val
 35 40 45
 Trp His Pro Pro Val Glu Met Leu Gln Gly Arg Arg Leu Lys Ala Val
 50 55 60
 Phe Ala Leu Gly Ala Gly Val Asp Ser Ile Leu Ser Lys Leu Lys Ala
 65 70 75 80
 His Pro Glu Met Leu Pro Glu Asp Ile Pro Leu Phe Arg Leu Glu Asp
 85 90 95
 Thr Gly Met Gly Gln Gln Met Gln Glu Tyr Ala Val Ser Gln Val Leu
 100 105 110
 His Trp Phe Arg Arg Phe Asp Asp Tyr Gln Ala Phe Lys Gln Gln Ser
 115 120 125
 His Trp Glu Pro Leu Pro Asp Tyr Gln Arg Glu Asp Phe Thr Ile Gly
 130 135 140
 Ile Leu Gly Ala Gly Val Leu Gly Ser Lys Val Ala Glu Ala Leu Ala
 145 150 155 160
 Pro Trp Gly Phe Pro Leu Arg Cys Trp Ser Arg Ser Arg Lys Glu Tyr
 165 170 175
 Pro Gly Val Glu Ser Phe Ala Gly Thr Asp Glu Leu Pro Ala Phe Leu
 180 185 190
 Lys Gly Thr Arg Val Leu Ile Asn Leu Leu Pro Asn Thr Ala Glu Thr
 195 200 205
 Val Gly Ile Ile Asn Gly Thr Leu Leu Asn Gln Leu Ala Glu Asp Ser
 210 215 220
 Tyr Leu Met Asn Leu Ala Arg Gly Val His Val Val Glu Asp Asp Leu
 225 230 235 240
 Leu Lys Ala Leu Asp Ser Gly Lys Leu Lys Gly Ala Met Leu Asp Val
 245 250 255
 Tyr Ser Arg Glu Pro Leu Pro Lys Asp Ser Pro Leu Trp Ala His Pro
 260 265 270
 Arg Val Ala Met Thr Pro His Ile Ala Ala Val Thr Arg Pro Ala Glu
 275 280 285
 Ala Val Ala Tyr Ile Ser His Thr Ile Ser Glu Ile Glu Lys Gly Asn
 290 295 300
 Ala Val Thr Gly Gln Val Asp Arg Gln Arg Ser Tyr
 305 310 315

<210> 6328

<211> 258

<212> PRT

<213> Enterobacter cloacae

<400> 6328

Leu Leu Ser Phe Gly Lys Thr Ala Glu Glu Arg Lys Met Tyr Pro Val

1				5				10				15				
Asp	Leu	His	Met	His	Thr	Val	Ala	Ser	Thr	His	Ala	Tyr	Ser	Asn	Leu	
			20					25					30			
His	Asp	Tyr	Ile	Ala	Gln	Ala	Lys	Leu	Lys	Gly	Ile	Lys	Leu	Phe	Ala	
		35					40					45				
Ile	Thr	Asp	His	Gly	Pro	Asp	Met	Ala	Asp	Ala	Pro	His	Tyr	Trp	His	
		50				55					60					
Phe	Val	Asn	Met	Arg	Ile	Trp	Pro	Arg	Leu	Val	Asp	Gly	Ile	Gly	Ile	
65				70						75					80	
Leu	Arg	Gly	Ile	Glu	Ala	Asn	Ile	Lys	Asn	Thr	Asp	Gly	Glu	Ile	Asp	
				85					90					95		
Cys	Thr	Gly	Pro	Met	Leu	Thr	Ser	Leu	Asp	Leu	Ile	Leu	Ala	Gly	Phe	
			100					105					110			
His	Glu	Pro	Val	Phe	Ala	Pro	Gln	Asp	Lys	Glu	Thr	Asn	Thr	Ala	Ala	
		115					120					125				
Met	Ile	Ala	Thr	Ile	Ala	Ser	Gly	Asn	Val	His	Ile	Ile	Ser	His	Pro	
		130				135					140					
Gly	Asn	Pro	Lys	Tyr	Pro	Ile	Asp	Ile	Gln	Ala	Val	Ala	Gln	Ala	Ala	
145				150						155					160	
Ala	Lys	His	Arg	Val	Ala	Leu	Glu	Ile	Asn	Asn	Ser	Ser	Phe	Val	His	
			165					170						175		
Ser	Arg	Lys	Gly	Ser	Glu	Ala	Asn	Cys	Arg	Glu	Val	Ala	Ala	Ala	Val	
		180						185					190			
Arg	Asp	Ala	Gly	Gly	Met	Val	Ala	Leu	Gly	Ser	Asp	Ser	His	Thr	Ala	
		195					200					205				
Phe	Thr	Leu	Gly	Asp	Phe	Ser	Glu	Cys	Leu	Lys	Ile	Leu	Arg	Asp	Val	
		210				215					220					
Asn	Phe	Pro	Glu	Glu	Gln	Ile	Leu	Asn	Val	Thr	Pro	Arg	Arg	Met	Leu	
225				230						235					240	
Asp	Phe	Leu	Glu	Ser	Arg	Gly	Met	Ala	Pro	Ile	Asp	Glu	Phe	Ala	Asp	
				245					250					255		

<210> 6329

<211> 509

<212> PRT

<213> Enterobacter cloacae

<400> 6329

Val	Ile	Thr	Lys	Lys	Val	Ser	Asn	Thr	Lys	Ala	Trp	Thr	Gly	Ser	Leu	
1				5					10					15		
His	Gly	Asp	Ala	Thr	Phe	Gln	Gly	Asn	His	Asp	Ser	Gly	Asp	Ile	Phe	
			20					25					30			
Gln	Thr	Asn	Ala	Tyr	Ala	Cys	Gly	Pro	Leu	Ile	Asp	Gly	Leu	Leu	Gly	
		35					40					45				
Ala	Lys	Val	Thr	Gly	Leu	Leu	Ser	Arg	Arg	Ala	Glu	Asp	Lys	Ile	Val	
		50				55				60						
Asn	Gly	Tyr	Asn	Glu	Gln	Lys	Met	Arg	Asn	Gly	Gly	Ile	Thr	Leu	Asn	
65				70					75						80	
Phe	Thr	Pro	Asp	Glu	Lys	Asn	Asp	Phe	Asp	Leu	Asp	Phe	Ala	Arg	Glu	
			85					90						95		
Leu	Gln	Asp	Arg	Asn	Ser	Thr	Pro	Gly	Met	Ser	Lys	Ala	Ala	Glu	Thr	
			100					105					110			
Cys	Arg	Gly	Thr	Thr	Cys	Thr	Pro	Asn	Thr	Lys	Ser	Asp	Ser	Arg	Tyr	
		115					120					125				
Glu	His	Thr	Thr	Tyr	Ser	Leu	Thr	His	Ser	Gly	Tyr	Tyr	Glu	Asp	Phe	
		130				135					140					
Asn	Thr	Thr	Ser	Tyr	Ile	Gln	Gln	Glu	Glu	Thr	Asn	Asn	Pro	Gly	Arg	
145				150						155					160	
Glu	Met	Arg	Ser	Tyr	Asn	Thr	Thr	Phe	Asn	Asn	Gln	Asn	Gln	Ile	Phe	

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<210> 6330
<211> 368
<212> PRT
<213> Enterobacter cloacae
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<400> 6330															
Ser	Ile	Leu	Phe	Leu	Ser	Gln	Ser	Ala	Val	Thr	Phe	Ser	Gln	Thr	Lys
1				5					10					15	
Glu	Lys	Val	Met	Ser	Glu	Ile	Thr	Leu	Gln	His	His	Arg	Thr	Val	Trp
			20					25					30		
His	Phe	Val	Pro	Gly	Leu	Ala	Leu	Ser	Ala	Val	Val	Thr	Gly	Val	Ala
		35					40					45			
Leu	Trp	Gly	Gly	Ser	Ile	Pro	Ala	Val	Ala	Gly	Ala	Gly	Phe	Ser	Ala
	50					55					60				
Leu	Thr	Leu	Ala	Ile	Leu	Leu	Gly	Met	Val	Val	Gly	Asn	Thr	Val	Tyr
65					70					75					80
Pro	His	Ile	Trp	Lys	Ser	Cys	Asp	Gly	Gly	Val	Ile	Phe	Ala	Lys	Gln

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<210> 6331
<211> 291
<212> PRT
<213> Enterobacter cloacae
```

<400> 6331															
Ala	Phe	Arg	Val	Asn	Arg	Ser	Leu	Phe	Met	Lys	Tyr	Val	Gly	Ala	His
1				5					10					15	
Val	Ser	Ala	Ala	Gly	Gly	Leu	Ala	Asn	Ala	Ala	Ile	Arg	Ala	Ala	Glu
			20					25					30		
Ile	Glu	Ala	Thr	Ala	Phe	Ala	Leu	Phe	Thr	Lys	Asn	Gln	Arg	Gln	Trp
		35					40					45			
Arg	Ala	Ala	Pro	Leu	Thr	Ala	Glu	Val	Ile	Asp	Asp	Phe	Lys	Ala	Ala
	50					55					60				
Cys	Glu	Lys	Tyr	Gly	Tyr	Gly	Pro	Gly	Gln	Ile	Leu	Pro	His	Asp	Ser
65					70					75					80
Tyr	Leu	Ile	Asn	Leu	Gly	His	Pro	Val	Ala	Glu	Ala	Leu	Glu	Lys	Ser
				85					90					95	
Arg	Glu	Ala	Phe	Leu	Asp	Glu	Val	Gln	Arg	Cys	Glu	Gln	Leu	Gly	Leu
			100					105					110		
Thr	Leu	Leu	Asn	Phe	His	Pro	Gly	Ser	His	Leu	Met	Gln	Ile	Asp	Glu
		115					120					125			
Asp	Ala	Cys	Leu	Ala	Arg	Ile	Ala	Glu	Ser	Ile	Asn	Met	Thr	Leu	Asp
	130					135					140				
Lys	Thr	Gln	Gly	Val	Thr	Ala	Val	Ile	Glu	Asn	Thr	Ala	Gly	Gln	Gly

145		150		155		160
Ser Asn Leu Gly	Phe Lys Phe Glu His	Leu Ala Ala Ile Ile	Asp Gly			
	165	170	175			
Val Glu Asp Lys	Ser Arg Val Gly Val	Cys Ile Asp Thr Cys	His Ala			
	180	185	190			
Phe Ala Ala Gly	Tyr Asp Leu Arg Thr	Thr Glu Ala Thr	Lys Asn Thr			
	195	200	205			
Phe Glu Glu Phe	Glu Arg Ile Val Gly	Phe Lys Tyr Leu	Arg Gly Met			
	210	215	220			
His Leu Asn Asp	Ala Lys Ser Ala Phe	Gly Ser Arg Val	Asp Arg His			
225	230	235	240			
His Ser Leu Gly	Glu Gly Asn Ile Gly	His Asp Ala Phe	Arg Phe Ile			
	245	250	255			
Met Gln Asp Val	Arg Phe Glu Gly Ile	Pro Met Val Leu	Glu Thr Ile			
	260	265	270			
Asn Pro Asp Ile	Trp Ala Glu Glu Ile	Phe Trp Leu Lys	Ala His Gln			
	275	280	285			
Thr Pro						
290						

<210> 6332

<211> 291

<212> PRT

<213> Enterobacter cloacae

<400> 6332

Ala Thr Met His	Ile Thr Leu Arg	Gln Leu Glu Val	Phe Ala Glu Val
1	5	10	15
Leu Lys Ser Gly	Ser Thr Thr Gln	Ala Ser Gln Met	Leu Ala Leu Ser
	20	25	30
Gln Ser Ala Val	Ser Ala Ala Leu	Thr Asp Leu Glu	Gly Gln Leu Gly
	35	40	45
Val Gln Leu Phe	Asp Arg Val Gly	Lys Arg Leu Val	Val Asn Glu His
	50	55	60
Gly Arg Leu Leu	Tyr Pro Arg Ala	Leu Ala Leu Leu	Glu Gln Ala Thr
65	70	75	80
Glu Ile Glu Gln	Leu Phe Arg Glu	Asp Asn Gly Ala	Ile Arg Val Tyr
	85	90	95
Ala Ser Ser Thr	Ile Gly Asn Tyr	Ile Leu Pro Glu	Val Ile Ala Arg
	100	105	110
Tyr Arg Arg Asp	Phe Pro Thr Leu	Pro Leu Glu Met	Ser Val Gly Asn
	115	120	125
Ser Gln Asp Val	Ile Asn Ala Val	Ile Asp Phe Arg	Val Asp Ile Gly
	130	135	140
Leu Ile Glu Gly	Pro Cys His Asn	Val Asp Ile Ile	Ala Glu Pro Trp
145	150	155	160
Leu Glu Asp Glu	Leu Val Val Phe	Ala Ser Pro Ala	Ser Ser Leu Leu
	165	170	175
Gln Gly Glu Val	Thr Leu Glu Arg	Leu Ala Gln Ala	Gln Trp Ile Leu
	180	185	190
Arg Glu Gln Gly	Ser Gly Thr Arg	Glu Ile Val Asp	Tyr Leu Leu Leu
	195	200	205
Ser His Leu Pro	Gln Phe Gln Leu	Gly Met Glu Leu	Gly Asn Ser Glu
	210	215	220
Ala Ile Lys His	Ala Val Arg His	Gly Leu Gly Ile	Ser Cys Leu Ser
225	230	235	240
Arg Arg Val Ile	Ala Glu Gln Leu	Glu Thr Gly Ser	Leu Val Glu Ile
	245	250	255
Pro Val Pro Leu	Pro Lys Leu Val	Arg Thr Leu Trp	Cys Ile His His
	260	265	270
Arg Gln Lys His	Leu Ser Ser Ser	Leu Gln Arg Phe	Leu Arg Tyr Cys

		275						280							285		
Glu	Met																
	290																
<210> 6333																	
<211> 519																	
<212> PRT																	
<213> Enterobacter cloacae																	
<400> 6333																	
Ser	Ser	Leu	Ile	Thr	Glu	Tyr	Phe	Cys	Arg	Lys	Gln	Arg	Arg	Ser	Ser		
1				5					10					15			
Ala	Thr	Ile	Ala	Pro	His	Leu	Leu	Asn	Gly	Gln	His	Phe	His	Met	Val		
			20					25					30				
Ser	Glu	Thr	Lys	Thr	Thr	Gln	Ala	Pro	Ala	Leu	Arg	Arg	Ala	Leu	Lys		
		35				40						45					
Ala	Arg	His	Leu	Thr	Met	Ile	Ala	Ile	Gly	Gly	Ser	Ile	Gly	Thr	Gly		
	50					55					60						
Leu	Phe	Val	Ala	Ser	Gly	Ala	Thr	Ile	Ser	Ala	Ala	Gly	Pro	Gly	Gly		
65					70					75					80		
Ala	Leu	Phe	Ser	Tyr	Ile	Leu	Ile	Gly	Leu	Met	Val	Tyr	Phe	Leu	Met		
				85					90					95			
Thr	Ser	Leu	Gly	Glu	Leu	Ala	Ala	Tyr	Met	Pro	Val	Ser	Gly	Ser	Phe		
			100					105					110				
Ser	Thr	Tyr	Gly	Gln	Lys	Tyr	Val	Glu	Glu	Gly	Phe	Gly	Phe	Ala	Leu		
		115					120					125					
Gly	Trp	Asn	Tyr	Trp	Tyr	Asn	Trp	Ala	Val	Thr	Ile	Ala	Val	Asp	Leu		
	130					135					140						
Val	Ala	Ala	Gln	Leu	Val	Met	Thr	Trp	Trp	Phe	Pro	Asp	Thr	Pro	Gly		
145					150					155					160		
Trp	Ile	Trp	Ser	Ala	Leu	Phe	Leu	Ala	Val	Ile	Phe	Leu	Leu	Asn	Tyr		
			165					170						175			
Ile	Ser	Val	Arg	Gly	Phe	Gly	Glu	Ala	Glu	Tyr	Trp	Phe	Ser	Leu	Ile		
			180					185					190				
Lys	Val	Ala	Thr	Val	Ile	Ile	Phe	Ile	Val	Val	Gly	Val	Ala	Met	Ile		
		195					200					205					
Val	Gly	Ile	Phe	Lys	Gly	Ala	Glu	Pro	Ala	Gly	Trp	Ser	Asn	Trp	Thr		
	210					215					220						
Ile	Gly	Asp	Ala	Pro	Phe	Ala	Gly	Gly	Phe	Ser	Ala	Met	Ile	Gly	Val		
225					230				235						240		
Ala	Met	Ile	Val	Gly	Phe	Ser	Phe	Gln	Gly	Thr	Glu	Leu	Ile	Gly	Ile		
				245					250					255			
Ala	Ala	Gly	Glu	Ser	Glu	Asn	Pro	Glu	Lys	Asn	Ile	Pro	Arg	Ala	Val		
			260					265					270				
Arg	Gln	Val	Phe	Trp	Arg	Ile	Leu	Leu	Phe	Tyr	Val	Phe	Ala	Ile	Leu		
			275				280					285					
Ile	Ile	Ser	Leu	Ile	Ile	Pro	Tyr	Thr	Asp	Pro	Ser	Leu	Leu	Arg	Asn		
	2																

				405					410				415				
Leu	Gly	Ile	Ala	Ile	Ser	His	Tyr	Arg	Phe	Arg	Arg	Gly	Tyr	Val	Lys		
			420					425					430				
Gln	Gly	His	Asp	Leu	Asn	Asn	Leu	Pro	Tyr	Arg	Ser	Gly	Phe	Phe	Pro		
		435					440					445					
Leu	Gly	Pro	Ile	Phe	Ala	Phe	Val	Leu	Cys	Leu	Ile	Ile	Thr	Leu	Gly		
	450					455					460						
Gln	Asn	Tyr	Glu	Ala	Phe	Leu	Ala	Asp	Thr	Ile	Asp	Trp	Gly	Ala	Val		
465				470						475					480		
Thr	Ala	Thr	Tyr	Ile	Gly	Ile	Pro	Leu	Phe	Leu	Ile	Ile	Trp	Phe	Gly		
			485						490					495			
Tyr	Lys	Leu	Thr	Lys	Gly	Thr	Arg	Phe	Val	Arg	Tyr	Ser	Glu	Met	Asp		
		500						505					510				
Phe	Pro	Glu	Arg	Phe	Lys												
		515															

<210> 6334

<211> 203

<212> PRT

<213> Enterobacter cloacae

<400> 6334

Arg	Thr	Gly	Lys	Met	Ser	Ser	Leu	Asp	Ser	Glu	Ala	Lys	Pro	Asp	Asn		
1			5					10						15			
Ala	Gly	His	Ser	Val	Leu	Ala	Leu	Thr	Thr	Ser	His	Ser	Leu	Val	Val		
		20					25						30				
Ser	Ser	Ser	Glu	Thr	Phe	Leu	Pro	Asp	Met	Arg	Lys	Glu	Leu	Gly	Ile		
		35				40					45						
Ile	Ala	Asp	Leu	Val	Glu	Ser	Tyr	Asn	Asp	Glu	Leu	Cys	Leu	Leu	Lys		
	50				55				60								
His	Met	Ala	Val	Gln	Phe	Lys	Thr	His	Asn	His	Gln	Lys	Leu	Tyr	Ser		
65				70					75						80		
Tyr	Leu	Ser	Gly	Tyr	Asn	His	Ser	Ile	Ser	Glu	Ala	Asp	Ala	Leu	Phe		
			85				90						95				
Ala	Glu	Asn	Ala	Leu	Arg	Ser	Glu	Tyr	Trp	Lys	Arg	Val	Met	Ala	Leu		
		100					105						110				
Thr	Asp	Val	Leu	Pro	Ile	Met	Ser	Asp	Ala	Lys	Arg	Asn	Glu	Trp	Asp		
	115					120						125					
Lys	Gln	Phe	Thr	Ala	Asp	Arg	Tyr	Ile	Met	Pro	Pro	Gln	Val	Ile	Pro		
	130				135						140						
Asp	Phe	Thr	Ala	Asp	Ala	Val	Val	Gly	Thr	Val	Val	Ala	Leu	Leu	Asn		
145				150				155							160		
Asp	Arg	Asn	Gln	Phe	Ile	Lys	Glu	Arg	Val	Tyr	Asp	Val	Phe	Gln	Ser		
			165				170							175			
Leu	Ser	Arg	Ser	His	Lys	Thr	Asn	Lys	Ala	Phe	Gly	Val	Leu	His	Pro		
		180					185						190				
His	Asp	His	Tyr	Arg	Ser	Leu	Arg	Ala	Val								
		195					200										

<210> 6335

<211> 391

<212> PRT

<213> Enterobacter cloacae

<400> 6335

Ala	Ala	Val	Ile	Arg	Gln	Thr	Lys	Leu	Leu	Gly	Phe	Ser	Thr	Arg	Met		
1			5					10						15			
Ile	Thr	Thr	Gly	Val	Cys	Glu	Pro	Ser	Lys	Tyr	Pro	Trp	Gln	Lys	Leu		
		20					25						30				
Arg	Val	Asp	Phe	Lys	Glu	Ser	Gly	Ile	Ser	Pro	Leu	Ser	Glu	Leu	Arg		
		35					40					45					

Val	Ile	Cys	Ala	Phe	Phe	Arg	Gly	Glu	Gln	Val	Lys	Ala	Ile	His	Asn
50						55					60				
Thr	Lys	Ser	Leu	Val	Glu	Ala	Leu	Val	Glu	His	Glu	Gly	Phe	Arg	Lys
65					70					75					80
Trp	Ile	Cys	Ile	Asp	Gly	Asn	Ser	Ile	Arg	Phe	Arg	Val	Tyr	Lys	Asn
				85					90					95	
Gly	Ser	Met	His	Ile	Asp	Val	His	Pro	Asp	Ile	Ala	Glu	Arg	Leu	Asn
			100					105					110		
Asn	Ile	Leu	Ser	Ala	Ile	Val	Pro	Leu	Ala	Leu	Pro	Ala	Asp	Arg	Met
		115					120					125			
Ala	His	Ser	Lys	Lys	Ser	Leu	Glu	Ala	Phe	Pro	Val	Leu	Lys	Gln	Cys
	130					135				140					
Ile	Asp	Phe	Asp	Thr	Arg	Met	Gln	Leu	Ser	Glu	Leu	Met	Phe	Lys	Asn
145					150					155					160
Asp	Gly	Asp	Asn	Lys	Trp	Ser	Cys	Trp	Thr	Ser	Leu	Gly	Ser	Leu	Ala
			165						170					175	
Glu	Arg	Lys	Ser	Ser	Ser	Val	Ala	Ala	Asp	Thr	Leu	Arg	Phe	Leu	Gly
			180					185					190		
Ala	Thr	Val	Thr	Lys	Tyr	Asp	Val	Thr	Phe	Ser	Tyr	Asp	Pro	Cys	Glu
	195						200					205			
Val	Ile	Arg	Tyr	Ile	Gly	Gln	Ile	Gly	Glu	Met	Pro	Asp	Ile	Val	Ser
	210					215					220				
His	Gln	Phe	Tyr	Pro	Ser	Ser	Cys	Arg	Ile	Ser	Glu	Tyr	Val	Tyr	Ser
225					230					235					240
Leu	Leu	Gly	Ala	Gly	Glu	Gly	Asp	Thr	Leu	Leu	Glu	Pro	Asn	Ile	Gly
			245						250					255	
His	Ala	Asp	Leu	Leu	Lys	Ser	Phe	Pro	Ala	Gly	Val	Ile	Val	Thr	Gly
			260					265					270		
Ile	Glu	Leu	Asp	Thr	Leu	Asn	Cys	Leu	Ile	Ser	Arg	Ala	Lys	Gly	Tyr
	275						280					285			
Asp	Thr	Thr	Glu	Ala	Asp	Phe	Leu	Thr	Trp	Ser	Lys	Ser	Asn	Gln	Gln
	290					295					300				
Lys	Lys	Phe	Asp	Tyr	Val	Val	Met	Asn	Pro	Pro	Phe	Ala	Asp	Asn	Arg
305					310					315					320
Ala	Arg	Leu	His	Leu	Gln	Ala	Ala	Ala	Ser	His	Leu	Ala	Ala	Gly	Gly
			325						330					335	
Ser	Leu	Ala	Ala	Val	Leu	Pro	Leu	Ser	Leu	Gln	Gly	Leu	Asp	Asn	Leu
			340					345					350		
Leu	Gly	Glu	Glu	Phe	Arg	Thr	Glu	Trp	Met	Asp	Val	Phe	Glu	Asn	Glu
		355					360					365			
Phe	Glu	Asn	Thr	Thr	Val	Ser	Val	Arg	Ile	Leu	Tyr	Ala	Glu	Arg	Ile
	370					375					380				
Gln	Gln	Glu	Glu	Val	Leu										
385					390										

<210> 6336

<211> 396

<212> PRT

<213> Enterobacter cloacae

<400> 6336

Ala	Glu	Lys	Cys	Asn	Gly	Ala	Pro	Met	Ser	Val	Leu	Leu	Thr	Glu	Pro
1				5					10					15	
Thr	Gln	Gln	Ala	Asn	Asp	Lys	Val	Phe	Lys	Thr	Ala	His	Val	Ala	Phe
			20					25					30		
Ser	Val	Val	Thr	Gly	Thr	Gly	Arg	Tyr	Val	Thr	Gly	Leu	Lys	Gln	Phe
		35					40					45			
Arg	Asp	Ala	Asn	Pro	Glu	Leu	Cys	Thr	Glu	Val	Ser	Asp	Gln	Lys	Ala
	50					55					60				
Trp	Ala	Ile	His	Pro	Ser	Val	Ile	Gln	Val	Thr	Pro	Gly	Phe	Asn	Ser
65					70					75					80

Arg Glu Met Gly Met Gly Asp Asp Tyr Tyr Lys Leu Pro Glu Val Glu
 85 90 95
 Glu His Ile Tyr Asn Ile Lys Asn Ala Tyr Ile Arg Gly Asp Tyr Val
 100 105 110
 Asp Pro Ile Arg Val Arg Val Ile Asp Gly Val Pro Phe Val Arg Gln
 115 120 125
 Gly His Cys Arg Leu Lys Ala Ala Met Met Ala Cys Asp Glu Asp His
 130 135 140
 Asp Ile Thr Ile Leu Cys Val Glu Ile Lys Glu Asp Glu Ile Gly Cys
 145 150 155 160
 Glu Leu Ala Thr Ile Asp Gly Asn Arg Gly Leu Ala Leu Ser Pro Val
 165 170 175
 Ala Leu Gly Glu Ser Tyr Arg Arg Leu His Ser Leu Ala Gly Trp Ser
 180 185 190
 Leu Glu Arg Ile Ala Gln Arg Glu Asn Lys Ser Pro Thr Ile Ser
 195 200 205
 Ser Leu Ile Arg Leu Thr Thr Cys Ser Val Val Ile Lys Lys Trp Ile
 210 215 220
 His Ala Asp Ala Ile Ser Tyr Val Asn Val Leu Ser Leu Ile Asp Glu
 225 230 235 240
 Leu Gly Glu Thr Glu Ala Ile Ser Arg Ile Lys Lys Met Ile Ala Glu
 245 250 255
 Leu Glu Gln Ala Asp Ala Asn Gly Ile Thr Val Lys Lys Thr Gln His
 260 265 270
 Gly Gln Val Arg Val Arg Pro Ser Asp Phe Lys Pro Ala Arg Ile Pro
 275 280 285
 Pro Val Ile Ala Thr Lys Ala Val Glu Gly Val Lys Leu Ile Thr Thr
 290 295 300
 Ser Leu Leu Gln Lys Leu Gly Asp Ile Glu Leu Pro Glu Met Thr Asp
 305 310 315 320
 Ser Ser Ala Asp Glu Ile Asn Ile Thr Leu Asn Arg Ser Thr Leu
 325 330 335
 Glu Met Leu Arg Asn Leu Ser Lys Glu Ile Thr Glu Ser Glu Asn Lys
 340 345 350
 Gln Leu Arg Arg Ala Glu Asn Arg Gln Ala Lys Leu Asn Gly Glu Lys
 355 360 365
 Pro Lys Tyr Pro Arg Lys Lys Asn Ala Lys Lys Ala Gly Glu Glu Thr
 370 375 380
 Asp Gln Asp Thr Asp Pro Gln Pro Asp Ala Glu
 385 390 395

<210> 6337

<211> 286

<212> PRT

<213> Enterobacter cloacae

<400> 6337

Ile Ser Leu Ser Gly Ile Asp Thr Leu Thr Arg His Leu Arg His Met
 1 5 10 15
 Pro Ile Ile Lys Trp Ala Gly Gly Lys Thr Lys Leu Met Pro Phe Ile
 20 25 30
 Ser His His Tyr Pro His Asp His Ser Cys Arg Trp Val Glu Pro Phe
 35 40 45
 Ile Gly Gly Gly Ala Val Phe Leu Asn Met Phe Ala Gln Asn Ala Leu
 50 55 60
 Leu Ala Asp Ser Asn Pro Asp Leu Ile Asn Leu Tyr Arg Thr Ile Gln
 65 70 75 80
 Arg Gln Lys Thr Asn Phe Ile Asn Gln Val Gln Asn Leu Ala Asp Lys
 85 90 95
 Thr Phe Val Glu Lys Asp Tyr Tyr Glu Met Arg Asp Arg Phe Asn Lys
 100 105 110

Thr	Cys	Ile	Ser	Gly	Gln	Pro	Leu	Gln	Arg	Ala	Ala	Leu	Phe	Tyr	Ser		
		115					120					125					
Leu	Asn	Arg	Leu	Gly	Tyr	Asn	Gly	Met	Cys	Arg	Tyr	Asn	Ser	Glu	Arg		
	130					135					140						
Ile	Tyr	Ser	Val	Pro	Trp	Gly	Lys	His	Thr	Glu	Leu	Lys	Leu	Asp	Phe		
145					150					155					160		
Asn	Lys	Ile	Asp	Tyr	Leu	Ser	Phe	Arg	Leu	Ser	Gly	Ile	Glu	Leu	Ile		
			165					170						175			
Thr	Ala	Gly	Phe	Glu	Glu	Thr	Leu	Ala	Ala	Thr	Gly	Glu	Gly	Asp	Gln		
			180					185						190			
Ile	Tyr	Cys	Asp	Pro	Pro	Tyr	Asp	Lys	Thr	Ser	Lys	Thr	Ser	Phe	Val		
	195						200					205					
Ser	Tyr	Asp	Gly	Lys	Pro	Phe	Ser	Gln	Ser	Asp	His	Val	Leu	Leu	Ala		
	210					215					220						
Asn	Met	Leu	Val	Asp	Ala	His	Arg	Lys	Gly	Ala	Ala	Val	Ala	Ile	Ser		
225					230					235					240		
Asn	Ser	Leu	Thr	Pro	Phe	Thr	Leu	Gly	Leu	Tyr	Glu	Glu	Arg	Gly	Phe		
				245				250						255			
Val	Ile	His	Arg	Leu	Ser	Ala	Tyr	Arg	Ser	Val	Gly	Ser	Lys	Pro	Asn		
			260					265					270				
Thr	Arg	Lys	Thr	Glu	Thr	Glu	Ile	Leu	Ala	Val	Leu	Lys					
		275					280					285					

<210> 6338

<211> 199

<212> PRT

<213> Enterobacter cloacae

<400> 6338

Asp	Cys	Ile	Thr	Val	Asp	Cys	Lys	Cys	Asp	Phe	Gln	Arg	Ile	Val	Leu		
1				5					10					15			
Ile	Met	Leu	Lys	Thr	Leu	Asn	Val	Ile	Thr	Asn	Asn	Asn	Phe	Tyr	Phe		
			20					25					30				
Tyr	Ser	Leu	Ile	Gly	Ile	Phe	Ser	Ala	Asn	Asp	Val	Leu	Ala	Asn	Met		
	35						40					45					
Tyr	His	Ile	Lys	Lys	Ile	Gly	Ser	Arg	Asp	Ile	Ala	Ser	Trp	Leu	Lys		
	50					55				60							
Glu	Thr	Gln	Asp	Asp	His	Ala	Ile	Val	Met	Ala	Gly	Pro	Asp	Thr	Glu		
65					70				75					80			
Ser	Leu	Thr	Lys	Leu	Ile	Cys	Thr	Gln	Arg	Gly	Tyr	Asn	Tyr	Ile	Ser		
				85				90						95			
Ser	Arg	Ser	Lys	Val	Lys	Asp	Met	Met	Gln	Phe	Phe	Leu	Lys	Glu	Tyr		
			100					105					110				
Lys	Pro	Arg	Lys	Asn	Ser	Ala	Tyr	Leu	Lys	Ala	Thr	Asn	Ser	His	Ile		
		115					120					125					
Ser	Thr	Gln	Asp	Ile	Lys	Val	Leu	Ile	Trp	Val	Ser	Ser	Gly	Leu	Lys		
	130					135					140						
Pro	Cys	Asp	Ile	Ser	Lys	Arg	Tyr	Gly	Ile	Ser	Ile	Lys	Thr	Ile	Ser		
145					150					155					160		
His	His	Lys	Arg	Asn	Leu	Met	Lys	Lys	Leu	Gln	Ile	Lys	Ser	Thr	Met		
				165					170					175			
Gln	Leu	Val	Asp	Val	Ala	Ser	Gln	Tyr	Ser	Leu	Leu	Cys	Lys	His	Leu		
			180					185					190				
Asn	Thr	Ser	Cys	Ala	Leu												
			195														

<210> 6339

<211> 2654

<212> PRT

<213> Enterobacter cloacae

<400> 6339

Met	Arg	Met	Asn	Lys	Val	Tyr	Lys	Val	Ile	Trp	Asn	His	Ser	Ala	Gln
1			5					10						15	
Arg	Trp	Asp	Val	Val	Ser	Glu	Leu	Thr	Gly	Ala	Lys	Lys	Lys	Ser	Lys
		20						25					30		
Ser	Ser	Arg	Val	Gly	Ala	Ala	Ile	Ser	Pro	Leu	Val	Leu	Leu	Thr	Ala
		35					40					45			
Leu	Thr	Leu	Asn	Pro	Gly	Phe	Ala	Tyr	Ala	Asp	Ile	Met	Leu	Pro	Asn
	50				55					60					
Asn	Trp	Leu	Ser	Ser	Asn	Gln	Asn	Asn	Gly	Val	Gly	Ala	Ala	Val	Val
65				70					75					80	
Asn	Gly	Thr	Glu	Glu	Asn	Ile	Ile	Gly	Pro	Gly	Val	Ile	Ser	Gly	Pro
			85					90						95	
Ser	Ser	Gly	Thr	Ser	Tyr	Met	Ser	Ile	Thr	Asp	Ala	Gln	Lys	Ala	Gly
		100						105					110		
Tyr	Ile	Ile	Ser	Gly	Asp	Asp	Leu	Ser	Gly	Leu	Val	Tyr	Thr	Asp	Ile
		115					120					125			
Gly	Lys	Arg	Thr	Arg	Thr	Val	Gln	Tyr	Tyr	Asp	Ser	Ile	Thr	Gly	Ala
	130					135				140					
Asn	Gln	Thr	Val	Met	Val	Tyr	Asp	Ser	Gly	Thr	Phe	Ser	Glu	Ser	Glu
145				150					155					160	
Ala	Ala	Ser	Asn	Val	Thr	Val	Pro	Val	Phe	Ser	Pro	Gly	Ala	Asn	Phe
			165						170					175	
Phe	Tyr	Lys	Thr	Arg	Leu	Val	Thr	Ala	Lys	Asn	Gly	Gly	Thr	Ala	Asn
		180					185						190		
Ile	Asp	Val	Lys	Ala	Ser	Ser	Ile	Gly	Ser	Tyr	Phe	Lys	Asp	Ser	Gln
	195						200					205			
Leu	Val	Val	Ala	Asp	Gly	Thr	Asn	Ser	His	Ala	Asn	Trp	Asn	Ser	Gln
	210				215					220					
Asn	Asn	Phe	Tyr	Phe	Gln	Ala	Ala	Ala	Arg	Val	Thr	Asp	Ser	Ala	Val
225				230					235					240	
Tyr	Asn	Lys	Thr	Ile	Asn	Phe	Ser	Asn	Tyr	Thr	Gly	Ser	Phe	Thr	Asp
			245					250						255	
Trp	Glu	Gly	Lys	Glu	His	Val	Val	Asn	Ser	Val	Ala	Asp	Leu	Gln	Ser
		260					265						270		
Tyr	Asn	Asp	Tyr	Leu	Ala	Glu	Ala	Leu	Lys	Asp	Gly	Arg	Leu	Pro	Pro
	275					280					285				
Gly	Gln	Tyr	Glu	Ala	Glu	Phe	Asn	Lys	Ala	Ile	Gln	Tyr	Glu	Ser	Lys
	290				295					300					
Asp	Tyr	Ile	Ile	Asp	Lys	Thr	Ala	Gly	Gly	Thr	Ile	Asp	Ser	Ser	Pro
305				310						315					320
Tyr	Asn	Ser	Pro	Val	Gly	Thr	Leu	Ala	Val	Leu	Ser	Ala	Thr	Asn	Gly
			325					330						335	
Gly	Thr	Val	Thr	Leu	Ser	Ser	Ser	Gly	Arg	Leu	Thr	Gly	Val	Leu	Pro
		340					345						350		
Ala	Tyr	Gly	Tyr	Gly	Ala	Gly	Val	Val	Ala	Ser	Ser	Gly	Gly	Thr	Gly
		355				360						365			
Ile	Asn	Glu	Gly	Val	Ile	Asp	Ala	Thr	Gly	Ala	Ala	Met	Arg	Ala	Tyr
	370				375					380					
Gln	Asp	Gly	Thr	Val	Ile	Asn	Asn	Gly	Thr	Ile	Tyr	Val	Trp	Asp	Asn
385				390					395					400	
Asn	Thr	Lys	Tyr	Thr	Leu	His	Gly	Glu	Gly	Met	Leu	Ala	His	Asn	Ala
			405					410						415	
Asn	Ala	Lys	Ala	Val	Asn	Asn	Gly	Val	Ile	Asn	Val	Arg	Pro	Trp	Lys
		420					425						430		
Asn	Ser	Phe	Thr	Pro	Tyr	Gly	Ile	Asn	Thr	Ala	Met	Leu	Leu	Ser	Asp
		435				440						445			
Gly	Gly	Glu	Gly	Thr	Asn	Asn	Gly	Val	Ile	Asn	Ile	Thr	Ala	Asp	Ala
	450				455					460					
Ser	Thr	Leu	Asp	Asn	Asn	Gly	Ala	Thr	Arg	Gly	Ile	Ser	Val	Ser	Asp
465				470					475						480

Gly	Gly	Thr	Phe	Ile	Asn	Ala	Gly	Asn	Gly	Lys	Ile	Thr	Val	Gly	Val
				485					490					495	
Asn	Ala	Gly	Gly	Thr	Lys	Ser	His	Ser	Ala	Val	Asp	Ser	Ile	Ala	Ile
			500					505					510		
Asp	Ile	Gly	Lys	Gly	Ala	Thr	Lys	Val	Val	Asn	Glu	Gly	Asp	Ile	Ile
		515					520					525			
Leu	Gly	Gln	Gly	Ala	Gln	Gly	Asp	Tyr	Gly	Val	Ser	Ala	Val	Asp	Ala
	530					535					540				
Gly	Thr	Val	Asn	Phe	Ile	Asn	Thr	Gly	Thr	Ile	Ser	Val	Glu	Gly	Gln
545				550						555					560
Asp	Ser	Ala	Thr	Pro	Ala	Leu	Asn	Ala	Gly	Ile	Arg	Ser	Ser	Asn	Ser
			565						570					575	
Ser	Gly	Leu	Val	Asn	Ser	Gly	Ile	Ile	Asn	Val	Asn	Gly	Thr	Asn	Asn
			580					585					590		
Ser	Gly	Ile	Leu	Ala	Glu	Asn	Gly	Gly	Ser	Val	Leu	Ser	Asp	Gly	Leu
		595					600					605			
Ile	Asn	Val	Gly	Ser	Val	Ser	Ala	Gly	Ser	Gly	Tyr	Arg	Asn	Tyr	Gly
	610					615					620				
Ala	Trp	Val	Asp	Gly	Ala	Ala	Ser	Ser	Val	Asp	Val	Ser	Gly	Gln	Ile
625				630						635					640
Asn	Leu	Ile	Gly	Ser	Gly	Ala	Ile	Gly	Ala	Phe	Ala	Asp	Asn	Ala	Gly
			645						650					655	
Ser	Leu	Ile	Leu	Ser	Gly	Thr	Gly	Ser	Ile	Ala	Phe	Asn	Asp	Ala	Glu
			660					665					670		
Gln	Ile	Gly	Phe	Tyr	Val	Asn	Gly	Lys	Gly	Ser	Ser	Val	Asn	Asn	Thr
		675					680						685		
Gly	Ser	Gly	Thr	Phe	Asp	Val	Ser	Ser	Arg	Asp	Ser	Ser	Met	Phe	Arg
	690				695					700					
Ile	Ala	Gly	Gly	Ala	Ser	Phe	Leu	Gly	Asn	Ser	Asp	Ala	Ser	Ser	Thr
705				710						715					720
Ile	Thr	Val	Ser	Gly	Glu	Asn	Ser	Leu	Ala	Leu	Val	Val	Thr	Gly	Ser
			725						730					735	
Ser	Asp	Gln	Gly	Asp	Val	Ser	Thr	Ile	Asn	Thr	Gly	Gly	Met	Ala	Ile
		740						745					750		
Gln	Leu	Ser	Gly	Asn	Asp	Ser	Thr	Gly	Leu	Arg	Val	Glu	Gly	Gly	Ala
		755					760					765			
Leu	Gly	Thr	Ile	Asp	Ala	Asn	Thr	Thr	Ile	Asn	Leu	Asn	Ala	Val	Ser
	770					775					780				
Ser	Ile	Ala	Ala	Val	Ala	Asp	Gly	Asn	Gly	Tyr	Asp	Ile	Ser	Gly	Asn
785				790						795					800
Leu	Ile	Asn	Lys	Glu	Asp	Asn	Ala	Thr	Ser	Leu	Thr	Ala	Ser	Ala	Gln
			805						810					815	
Leu	Thr	Ser	Ser	Leu	Asp	Ser	Val	Thr	Gly	Tyr	Ile	Ala	Arg	Asn	Gly
		820						825					830		
Ala	Ser	Leu	Asp	Asn	Ala	Gly	Asp	Ile	Ile	Phe	Thr	Gly	Ser	Lys	Thr
		835					840					845			
Thr	Gly	Met	Arg	Val	Glu	Glu	Gly	Ala	Thr	Gly	Thr	Asn	Ser	Gly	Asn
	850					855						860			
Ile	Thr	Val	Glu	Asp	Gly	Gly	Ala	Gly	Leu	Ile	Ala	Ala	Ser	Gly	Gly
865				870						875					880
Lys	Asn	Thr	Val	Ile	Asn	Asn	Thr	Gly	Asn	Leu	Ile	Leu	Lys	Gly	Gly
			885						890					895	
Asp	Asn	Ala	Asn	Arg	Thr	Thr	Gly	Ile	Lys	Ala	Ser	Gly	Pro	Gly	Thr
			900					905					910		
Val	Ile	Asn	Met	Asn	Ala	Gly	Asn	Ile	Glu	Leu	Gln	Gly	Gln	Gly	Ala
		915					920					925			
Val	Gly	Val	Glu	Val	Ser	Asp	Glu	Gly	Thr	Val	Asn	Leu	Ile	Gly	Ser
	930					935					940				
Ala	Val	Pro	Gln	Phe	Ala	Asp	Glu	Ser	Thr	Gly	Ile	Thr	Asp	Gln	Ile
945				950						955					960
Ala	Phe	Arg	Ile	Lys	Gly	Ser	Gly	Ala	Gln	Ile	Asn	Thr	Ser	Ile	Ala

Pro Gly Thr	965	Leu Leu Asp Ala Thr Gly	970	Lys Asp Ser Ile Leu Phe Arg	975
Ile Glu Asp	980	Gly Ala Gln Gln Ala Gly	985	Thr Leu Gln Met Lys Thr Ser	990
Gly Thr Gly	995	Ser Ser Gly Ile Trp Val	1000	Thr Gly Thr Gly Ser Lys Val	1005
Val Ala Gly	1010	Ser Gly Ser Asp Phe Gln Ile	1015	Leu Gly Asp Asn Ala Lys	1020
Gly Leu Tyr	1025	Val Thr Gly Gly Ala Glu Ala	1030	Thr Leu Glu Gln Gly Val	1035
Ser Val Asn	1045	Leu Val Gly Asp Gly Ala	1050	Ile Val Ala Glu Val Asp Gly	1055
Asn Ala Tyr	1060	Gly Leu Asp Gly Ser Val	1065	Thr Gly Gln Asn Thr Gly Ser	1070
Val Leu Thr	1075	Asn Glu Ala Asp Ile Thr	1080	Thr Ala Leu Ser Asn Ala Thr	1085
Gly Phe Ile	1090	Thr Arg Asn Gln Gly Leu	1095	Leu Val Asn Asn Gly Asn Ile	1100
Asp Phe Thr	1105	Ala Gly Thr Asp Asn Ile	1110	Gly Ile Leu Val Asp Asp Gly	1115
Arg Phe Glu	1125	Asn Ser Gly Asn Ser Ile	1130	Ala Val Asn Gly Val Ala Leu	1135
Tyr Ile Lys	1140	Gly Ala Asn Ser Gln Val	1145	Asn Asn Thr Thr Gly Gly Asp	1150
Ile Ile Ala	1155	Val Asp Gly Glu Ala Ala	1160	Ile Lys Leu Gly Ala Gly Ala	1165
Ser Leu Asp	1170	Leu Ala Gly Asp Gly Phe	1175	Asp Gly Ser Ala Thr Ile Glu	1180
Gly Arg Gly	1185	Ser Ala His Gly Ile Leu	1190	Leu Asp Thr Gly Ala Thr Gly	1195
Leu Lys Leu	1205	Asn Gly Ala Val Ile Lys	1210	Val Ser Gly Leu Glu Thr Thr	1215
Gly His Gly	1220	Ile Glu Asn Arg Ala Glu	1225	Ile Glu Gly Ile Gln Leu Ser	1230
Asn Gly Ala	1235	Arg Ile Asn Val Ser Gly	1240	Gly Gly Ile Gly Ile Arg Thr	1245
Ala Ala Pro	1250	Leu Ala Lys Lys Asn Gln	1255	Gly Val Ile Thr Val Arg Gly	1260
Ala Thr Gly	1265	Ile Ala Phe Gln Lys Ala	1270	Asp Gly Ser Ala Thr Asp Gly	1275
Leu Phe Asp	1285	Ile Ser Asp Ser Ser Glu	1290	Leu Tyr Phe Asp Val Glu Tyr	1295
Gly Thr Gly	1300	Ile Leu Val Asn Thr Thr	1305	Ala Asp Ala Val Val Lys Thr	1310
Asn Ala Asn	1315	Ile Trp Val Tyr Gly Glu	1320	Asp Gly Gly Ser Ala Ile Val	1325
Val Lys Asp	1330	Ser Ala Ser Glu Val Val	1335	Gln Ser Gly Glu Ile Phe Ser	1340
Ala Ser Leu	1345	Ile Asn Asp Ala Ile Ile	1350	Ala Ser Arg Thr Ser Ser Phe	1355
Ile Asn Glu	1365	Gly Thr Ile Phe Ala Tyr	1370	Leu Gly Thr Ala Ile Ser Phe	1375
Ser Asp Asp	1380	Val Asp Ser Thr Leu Lys	1385	Asn His Gly Asn Ile Asp Gly	1390
Lys Val Lys	1395	Leu Asn Gly Gly Asn Asn	1400	Thr Leu Ile Asn Asn Gly Ser	1405
Val Gly Ala	1410	Leu Thr Ala Gly Asp Gly	1415	Asn Asn Thr Leu Asn Leu Asn	1420
Asp Gly Ser	1425	Tyr Leu Gln Asp Ala Thr	1430	Leu Gly Asn Gly Asn Asn Thr	1435
	1445		1450		1455

Ile Ile Phe Ser Gly Phe Ser Met Ala Gly Glu Ile Val Ala Gly Thr
 1460 1465 1470
 Gly Glu Asn Thr Phe Ile Ile Lys Asp Ser Asp Gly Leu Arg Phe Asp
 1475 1480 1485
 Leu Leu Asp Gly Gly Met Gly Asp Ser Asp Lys Leu Ile Phe Asp His
 1490 1495 1500
 Ala Gln Tyr Phe Thr Leu Asp Ser Ala Gly Lys Ile Lys Asn Ile Glu
 1505 1510 1515 1520
 Ser Val Arg Leu Asp Asn Asp Ser Asp Val Thr Ile Arg Glu Ala Leu
 1525 1530 1535
 Leu Leu Thr Asp Asn Gly Ala Gly Pro Gly Ser Val Asp Ile His Asp
 1540 1545 1550
 Asp Lys Ser Glu Leu Ser Val Arg Pro Ser Ala Pro Gly Gly Phe Thr
 1555 1560 1565
 Phe Asp Pro Arg Leu Thr Gly Glu Gly Leu Leu Ser Val Glu Leu Asp
 1570 1575 1580
 Ala Ala Glu Ser Glu Phe Ser Phe Ser Gln Asn Val Gly Asn Ala Phe
 1585 1590 1595 1600
 Ser Gly Thr Leu Ala Leu Gly Lys Ser Asn Phe Val Leu Asp Gly Ile
 1605 1610 1615
 Asn Thr Glu Ser Ile Thr Asn Ala Met Leu Ile Ser Glu Thr Asp Asn
 1620 1625 1630
 Thr Thr Ile Val Gly Asp Gly Thr Gln His Ile Gly Gly Leu Gly Ile
 1635 1640 1645
 Asp Gly Gly Lys Leu Ile Phe Gly Thr Val Thr Pro Gly Asp Thr Val
 1650 1655 1660
 Ala Ser Asn Ser Ile Val Thr Ser Glu Asp Gly Leu Leu Asp Ile Ser
 1665 1670 1675 1680
 Gly Lys Gly Thr Val Gln Val Thr Leu Pro Gly Glu Val Val Asn Val
 1685 1690 1695
 Arg Pro Val Pro Asp Thr Gln Lys Asn Ile Leu Glu Gln Asp Asp Ala
 1700 1705 1710
 Glu Thr Leu Val Thr Leu Val Glu Ala Arg Gly Ala Val Lys Gly Thr
 1715 1720 1725
 Gly Ala Glu Leu Leu Leu Thr Asp Glu Asn Gly Gly Val Ile Ser Asp
 1730 1735 1740
 Ser Gln Ser Phe Asp Ile Thr Gln Asp Gly Thr Pro Val Ala Arg Gly
 1745 1750 1755 1760
 Thr Tyr Asp Tyr Lys Leu Met Ser Ser Lys Asp Gly Ile Ser Gly Asp
 1765 1770 1775
 Gly Leu Tyr Ile Gly Tyr Gly Leu Lys Ser Ile Glu Leu Gln Gly Ile
 1780 1785 1790
 Ala Gly Asn Ala Leu Ile Leu Thr Pro Lys Asp Gly Ala Arg Gly Gln
 1795 1800 1805
 Glu Ser Asp Leu Asn Ala Gln Leu Thr Gly Thr Gly Asp Leu Ala Ile
 1810 1815 1820
 Asp Ala Gly Ser Asn Thr Val Thr Leu Ser Asn Gly Ser Asn Gly Tyr
 1825 1830 1835 1840
 Thr Gly Ser Thr Arg Val Leu Ser Gly Thr Leu Lys Met Ala Asn Asp
 1845 1850 1855
 Asn Val Leu Gly Gln Thr Ala Asp Leu Ala Ile Asn Asn Gly Ala Ala
 1860 1865 1870
 Phe Ile Thr Asp Gly Phe Ser Gln His Val Gly Ala Ile Gln Thr Glu
 1875 1880 1885
 Ala Gly Ala Gly Ile Gln Leu Asp Ala Gly Ser Glu Leu Thr Ile Asp
 1890 1895 1900
 Ser Thr Leu Arg Ala Ser Gly Glu Ala Ala Gly Gly Val Ile Glu Asp
 1905 1910 1915 1920
 Ser Ala Leu Tyr Gly Glu Gly Arg Leu Val Val Ser Asp Ser Ser Leu
 1925 1930 1935
 Glu Val Lys Gly Gln Asn Ser Lys Phe Thr Gly Asp Val Thr Leu Glu

1940					1945					1950					
Ser	Gly	Ser	Val	Ala	Glu	Leu	Glu	Asn	Ala	Gln	Gly	Leu	Gly	Ser	Leu
1955					1960					1965					
Gly	Thr	Val	Leu	Leu	Ser	Gly	Asn	Asp	Asp	Thr	Leu	Lys	Met	Asp	Ile
1970					1975					1980					
Val	Lys	Gly	Ser	Asn	Ser	Ser	Thr	Ser	Leu	Thr	Lys	Ser	Leu	Ala	Gly
1985					1990					1995					
Lys	Gly	Thr	Val	Asp	Ile	Leu	Asn	Asn	Thr	Asp	Leu	Thr	Leu	Ser	Gly
2005					2010					2015					
Asp	Asn	Ser	Asn	Phe	Ser	Gly	Thr	Phe	Asp	Ile	Gly	Ser	Glu	Ala	Ala
2020					2025					2030					
Leu	His	Ala	Ser	Asp	Ala	Lys	His	Leu	Gly	Gln	Ser	Val	Leu	Gly	Asn
2035					2040					2045					
Glu	Gly	Ser	Leu	Tyr	Leu	Thr	Ala	Asn	Asn	Asp	Trp	Glu	Leu	Thr	Asn
2050					2055					2060					
Glu	Ile	Asn	Gly	Ala	Gly	Ser	Leu	Thr	Lys	Gln	Gly	Ser	Gly	Asn	Leu
2065					2070					2075					
Ile	Ile	Asn	Arg	Glu	Leu	Ser	Tyr	Thr	Gly	Ala	Thr	Arg	Val	Glu	Ser
2085					2090					2095					
Gly	Thr	Met	Val	Ile	Gly	Asp	Asn	Ser	Lys	Asp	Ala	Ala	Gly	Val	Leu
2100					2105					2110					
Ser	Gly	Thr	Ser	Val	Val	Thr	Val	Asn	Ala	Gly	Ala	Met	Leu	Ala	Gly
2115					2120					2125					
Thr	Gly	Thr	Ile	Ala	Gly	Asn	Val	Glu	Asn	Lys	Gly	Thr	Ile	Ala	Ala
2130					2135					2140					
Leu	Asn	Ser	Leu	Ser	Gly	Tyr	Ser	Asp	Ala	Gly	Thr	Gly	Asn	Phe	Thr
2145					2150					2155					
Val	Gly	Ala	Leu	Asn	Asn	Thr	Gly	Thr	Leu	Leu	Leu	Ala	Gly	Ser	Glu
2165					2170					2175					
Thr	Gly	Asn	Thr	Leu	Thr	Val	Asn	Gly	Asp	Tyr	His	Gly	Glu	Gly	Lys
2180					2185					2190					
Leu	Val	Leu	Asn	Thr	Val	Leu	Gly	Asp	Asp	Ser	Leu	Thr	Asp	Lys	
2195					2200					2205					
Leu	Ile	Val	Lys	Gly	Asn	Ala	Ser	Gly	Lys	Thr	Asp	Val	Tyr	Val	Thr
2210					2215					2220					
Asn	Val	Gly	Gly	Ser	Gly	Ala	Gln	Thr	Gln	Asn	Gly	Ile	Glu	Val	Val
2225					2230					2235					
Gln	Val	Asp	Gly	Gln	Ser	Ala	Asp	Asp	Ser	Phe	Arg	Leu	Ala	Lys	Arg
2245					2250					2255					
Ala	Val	Gly	Gly	Ala	Tyr	Glu	Tyr	Tyr	Leu	His	Lys	Gly	Asp	Ile	Asn
2260					2265					2270					
Gly	Ala	Gly	Gly	Asp	Trp	Tyr	Leu	Arg	Ser	Glu	Leu	Ser	Pro	Ala	Pro
2275					2280					2285					
Glu	Pro	Asp	Thr	Thr	Pro	Gly	Pro	Asp	Thr	Thr	Pro	Glu	Pro	Glu	Pro
2290					2295					2300					
Asn	Pro	Thr	Pro	Glu	Pro	Ala	Pro	Ala	Pro	Thr	Pro	Ala	Pro	Glu	Pro
2305					2310					2315					
Asp	Gln	His	Gly	Asp	Lys	Val	Tyr	Arg	Pro	Glu	Ala	Gly	Ser	Tyr	Ile
2325					2330					2335					
Ala	Gly	Ile	Ala	Ala	Ser	Asn	Thr	Leu	Phe	Asn	Thr	Arg	Leu	His	Asp
2340					2345					2350					
Arg	Ala	Gly	Glu	Thr	Tyr	Tyr	Thr	Asp	Val	Leu	Thr	Gly	Glu	Gln	Ala
2355					2360					2365					
Val	Thr	Ser	Met	Trp	Met	Arg	His	Val	Gly	Gly	His	Asn	Val	Trp	Lys
2370					2375					2380					
Asp	Gly	Ser	Ser	Gln	Leu	Asn	Thr	Gln	Ser	Asn	Arg	Tyr	Val	Leu	Gln
2385					2390					2395					
Leu	Gly	Gly	Asp	Ile	Ala	Gln	Trp	Thr	Asp	Gly	Lys	Asp	Arg	Leu	His
2405					2410					2415					
Leu	Gly	Val	Met	Gly	Gly	Tyr	Gly	Asn	Glu	Lys	Ser	Ser	Thr	Thr	Ser
2420					2425					2430					

Ser Leu Ser His Tyr Lys Ser Arg Gly Thr Val Asn Gly Tyr Ser Leu
 2435 2440 2445
 Gly Met Tyr Ala Thr Trp Gln Gln Asn Glu Gly Glu Glu Ser Gly Ala
 2450 2455 2460
 Tyr Val Asp Thr Trp Ala Gln Tyr Ser Trp Phe Asp Asn Thr Val Lys
 2465 2470 2475 2480
 Gly Glu Gln Leu Ala Gln Glu Thr Trp Lys Ser Ser Gly Ile Thr Ala
 2485 2490 2495
 Ser Ala Glu Ala Gly Tyr Thr Phe Asn Ala Gly Lys Phe Lys Gly Ser
 2500 2505 2510
 His Gly Ser Glu Tyr Asn Trp Tyr Ile Gln Pro Gln Ala Gln Ile Thr
 2515 2520 2525
 Trp Met Asn Val Arg Ser Glu Asp His Arg Glu His Asn Gly Thr Lys
 2530 2535 2540
 Ile Ser Ala Gln Gly Glu Gly Asn Val Gln Ser Arg Val Gly Leu Arg
 2545 2550 2555 2560
 Thr Tyr Leu Lys Gly Lys Ser His Leu Asp Ser Glu Lys Glu Arg Thr
 2565 2570 2575
 Phe Glu Pro Phe Ile Glu Ala Asn Trp Ile His Asn Thr Arg Ser Trp
 2580 2585 2590
 Gly Val Arg Met Asp Asp Ala Leu Val Thr Gln Asp Gly Ala Arg Asp
 2595 2600 2605
 Val Gly Glu Ile Lys Thr Gly Val Glu Gly Gln Ile Ser Lys Asn Leu
 2610 2615 2620
 Asn Val Trp Gly Asn Val Gly Val Gln Ile Gly Asp Lys Gly Tyr Asn
 2625 2630 2635 2640
 Asp Thr Gln Ala Met Leu Gly Ile Lys Tyr Ser Phe Lys
 2645 2650

<210> 6340

<211> 416

<212> PRT

<213> Enterobacter cloacae

<400> 6340

Arg Lys Pro Asp Arg Asp Arg Gly Glu Lys Ser Arg Arg His Arg Gly
 1 5 10 15
 Ala Asp Gly Gly Gly Thr Arg Met Ser Val Ile Ile Val Gly Gly Gly
 20 25 30
 Met Thr Gly Ala Thr Leu Ala Leu Ala Ile Ser Gln Leu Thr Lys Gly
 35 40 45
 Gln Leu Pro Val His Leu Val Glu Ala Val Ala Pro Gln Ala Ala Asp
 50 55 60
 His Pro Gly Phe Asp Ala Arg Ala Ile Ala Leu Ala Gln Gly Thr Cys
 65 70 75 80
 Gln Gln Leu Ala Arg Ile Gly Ile Trp Gln Ala Ile Ala Asp Cys Ala
 85 90 95
 Thr Ala Ile Gly Thr Val His Val Ser Asp Arg Gly His Ala Gly Phe
 100 105 110
 Val Thr Leu Asp Ala His Asp Tyr Leu Ile Glu Ala Leu Gly Gln Val
 115 120 125
 Val Glu Leu His Asp Val Gly Leu Arg Leu Phe Arg Leu Leu Gln Asp
 130 135 140
 Ala Pro Gly Val Thr Leu His Cys Pro Ala Arg Val Ala Ser Phe Ser
 145 150 155 160
 Arg Arg Asp Glu Ala Val Ser Val Thr Leu Asp Asn Gly Thr Thr Leu
 165 170 175
 Glu Gly Gln Leu Leu Val Ala Ala Asp Gly Ser Arg Ser Ala Ile Ala
 180 185 190
 Thr Gln Cys Gly Val Glu Trp Arg Ser Glu Pro Tyr Gly Gln Ala Ala
 195 200 205

Val	Ile	Ala	Asn	Val	Ser	Thr	Ala	Gly	Ala	His	Asn	Gly	Arg	Ala	Phe
210						215				220					
Glu	Arg	Phe	Thr	Glu	His	Gly	Pro	Leu	Ala	Met	Leu	Pro	Met	Ser	Asn
225					230					235					240
Gly	Arg	Cys	Ser	Leu	Val	Trp	Cys	His	Ala	Gln	Asp	Arg	Ala	Asp	Glu
				245					250					255	
Val	Leu	Ser	Trp	Ser	Asp	Glu	Arg	Phe	Cys	Ser	Glu	Leu	Gln	Lys	Ala
			260					265					270		
Phe	Gly	Trp	Arg	Leu	Gly	Arg	Ile	Thr	His	Ala	Gly	Lys	Arg	Val	Ala
			275				280					285			
Tyr	Pro	Leu	Ala	Leu	Thr	Thr	Ala	Ser	Gln	Thr	Val	Ser	His	Arg	Val
	290					295					300				
Ala	Leu	Val	Gly	Asn	Ala	Gln	Thr	Leu	His	Pro	Ile	Ala	Gly	Gln	
305				310					315					320	
Gly	Phe	Asn	Leu	Gly	Leu	Arg	Asp	Val	Met	Ser	Leu	Ala	Glu	Leu	Leu
				325					330					335	
Ala	Arg	Thr	Trp	Ser	Glu	Gln	Gln	Asp	Cys	Gly	Ala	Tyr	Ser	Val	Leu
			340					345					350		
Ser	His	Tyr	Gln	Lys	Arg	Arg	Gln	Ala	Asp	Lys	Ala	Ala	Thr	Ile	Gly
			355				360					365			
Val	Thr	Asp	Gly	Leu	Val	His	Leu	Phe	Ala	Asn	Arg	Trp	Ala	Pro	Leu
	370					375					380				
Val	Ala	Gly	Arg	Asn	Leu	Gly	Leu	Met	Ala	Met	Glu	Leu	Phe	Ile	Pro
385				390					395						400
Ala	Arg	Asp	Val	Leu	Ala	Gln	Arg	Thr	Leu	Gly	Trp	Val	Ala	Arg	
				405					410					415	

<210> 6341

<211> 405

<212> PRT

<213> Enterobacter cloacae

<400> 6341

Gly	Val	Leu	Thr	Val	Gln	Asn	Val	Asp	Val	Ala	Ile	Val	Gly	Gly	Gly
1				5				10					15		
Met	Val	Gly	Leu	Ala	Leu	Ala	Cys	Gly	Leu	Gln	Gly	Ser	Gly	Leu	Arg
			20					25					30		
Val	Ala	Val	Leu	Glu	Gln	Lys	Ala	Pro	Gln	Pro	Val	Ala	Gln	Asp	Ala
			35				40					45			
Pro	Pro	Glu	Leu	Arg	Val	Ser	Ala	Ile	Asn	Ala	Ala	Ser	Glu	Lys	Leu
			50			55					60				
Leu	Thr	His	Leu	Gly	Val	Trp	Ser	Glu	Ile	Val	Ala	Leu	Arg	Ala	Ser
65				70					75						80
Cys	Tyr	His	Gly	Met	Glu	Val	Trp	Asp	Lys	Asp	Ser	Phe	Gly	Arg	Ile
				85					90					95	
Ala	Phe	Asp	Asp	Glu	Ser	Met	Gly	Tyr	Ser	His	Leu	Gly	His	Ile	Val
			100					105					110		
Glu	Asn	Ala	Val	Ile	His	His	Val	Leu	Trp	Gln	Lys	Ala	Gln	Gln	Cys
			115				120					125			
Ser	Asp	Val	Thr	Leu	Ile	Ala	Pro	Ala	Lys	Leu	Gln	Gln	Val	Ala	Trp
			130			135					140				
Gly	Glu	Asn	Asp	Ala	Phe	Ile	Thr	Leu	Glu	Ser	Gly	Asp	Met	Leu	Thr
145				150					155						160
Ala	Arg	Leu	Val	Val	Gly	Ala	Asp	Gly	Ala	Asn	Ser	Trp	Leu	Arg	Asn
				165					170					175	
Lys	Ala	Asp	Ile	Pro	Leu	Thr	Phe	Trp	Asp	Tyr	Arg	His	His	Ala	Leu
			180					185					190		
Val	Ala	Thr	Ile	Arg	Thr	Glu	Glu	Pro	His	Gly	Gly	Val	Ala	Arg	Gln
			195			200						205			
Ile	Phe	His	Asn	Asp	Gly	Ile	Leu	Ala	Phe	Leu	Pro	Leu	Ala	Asp	Pro
210						215					220				

His Leu Cys Ser Ile Val Trp Ser Leu Glu Pro Glu Lys Ala Gln Gln
 225 230 235 240
 Met Gln Glu Thr Thr Pro Asp Ala Phe Ser Gln Ala Leu Cys Val Ala
 245 250 255
 Phe Asp Asn Arg Leu Gly Leu Cys Gly Leu Glu Ser Glu Arg Gln Thr
 260 265 270
 Phe Pro Leu Thr Gly Arg Tyr Ala Arg Gln Phe Ala Ala His Arg Leu
 275 280 285
 Ala Leu Val Gly Asp Ala Ala His Thr Ile His Pro Leu Ala Gly Gln
 290 295 300
 Gly Val Asn Leu Gly Phe Met Asp Ala Ala Glu Leu Val Glu Glu Leu
 305 310 315 320
 Arg Arg Leu His Arg Glu Gly Lys Asp Ile Gly Gln His Leu Tyr Leu
 325 330 335
 Arg Arg Tyr Glu Arg Ser Arg Lys His Ser Ala Ala Met Met Leu Ala
 340 345 350
 Gly Met Gln Gly Phe Arg Glu Leu Phe Ala Gly Ala Asn Pro Ala Lys
 355 360 365
 Lys Leu Leu Arg Asp Ile Gly Leu Lys Leu Ala Asp Thr Leu Pro Gly
 370 375 380
 Val Lys Pro Gln Leu Leu Arg Gln Ala Met Gly Leu Asn Asp Leu Pro
 385 390 395 400
 Asp Trp Leu Arg
 405

<210> 6342

<211> 142

<212> PRT

<213> Enterobacter cloacae

<400> 6342

Ala Gly Arg Leu Thr Ile Phe Ile Arg Arg Thr Ser Met Ser Asn Val
 1 5 10 15
 Pro Ala Glu Leu Lys Tyr Ser Lys Glu His Glu Trp Leu Arg Lys Glu
 20 25 30
 Ala Asp Gly Thr Tyr Thr Val Gly Ile Thr Glu His Ala Gln Glu Leu
 35 40 45
 Leu Gly Asp Met Val Phe Val Asp Leu Pro Glu Val Gly Ala Thr Val
 50 55 60
 Ser Ala Gly Asp Asp Cys Ala Val Ala Glu Ser Val Lys Ala Ala Ser
 65 70 75 80
 Asp Ile Tyr Ala Pro Val Ser Gly Glu Ile Val Ala Val Asn Asp Ala
 85 90 95
 Leu Ser Asp Ser Pro Glu Leu Val Asn Ser Glu Pro Tyr Glu Gly Gly
 100 105 110
 Trp Ile Phe Lys Ile Lys Ala Ser Asp Glu Ala Gln Val Ala Ala Leu
 115 120 125
 Leu Asp Ala Thr Ala Tyr Glu Ala Leu Leu Glu Asp Glu
 130 135 140

<210> 6343

<211> 402

<212> PRT

<213> Enterobacter cloacae

<400> 6343

Arg Pro Thr Leu Phe Ser Ala Ala Gly Glu His Trp Tyr Phe Thr Gly
 1 5 10 15
 Phe Asn Glu Pro Glu Ala Val Leu Val Leu Ile Lys Ser Asn Asp Thr
 20 25 30
 His Asn His Ser Val Ile Phe Asn Arg Val Arg Asp Leu Thr Ala Glu

		35				40				45					
Ile	Trp	Phe	Gly	Arg	Arg	Leu	Gly	Gln	Glu	Ala	Ala	Pro	Glu	Lys	Leu
	50					55					60				
Gly	Val	Asp	Arg	Ala	Leu	Ala	Tyr	Ser	Glu	Ile	Asn	Gln	Gln	Leu	Tyr
65					70					75					80
Gln	Leu	Leu	Asn	Gly	Leu	Asp	Val	Leu	Tyr	His	Ala	Gln	Gly	Glu	Tyr
			85						90					95	
Ala	Tyr	Ala	Asp	Asp	Ile	Val	Phe	Thr	Ala	Leu	Asp	Lys	Leu	Arg	Lys
			100					105					110		
Gly	Ser	Arg	Gln	Asn	Leu	Ser	Ala	Pro	Ala	Thr	Leu	Thr	Asp	Trp	Arg
		115					120					125			
Pro	Met	Val	His	Glu	Met	Arg	Leu	Phe	Lys	Ser	Glu	Glu	Glu	Leu	Asn
	130					135					140				
Val	Met	Arg	Arg	Ala	Gly	Glu	Ile	Ser	Ala	Leu	Ala	His	Thr	Arg	Ala
145					150					155					160
Met	Glu	Lys	Cys	Arg	Pro	Gly	Met	Phe	Glu	Tyr	Gln	Leu	Glu	Gly	Glu
			165						170					175	
Ile	His	His	Glu	Phe	Asn	Arg	His	Gly	Ala	Arg	Phe	Pro	Ser	Tyr	Asn
		180						185					190		
Thr	Ile	Val	Gly	Gly	Gly	Glu	Asn	Gly	Cys	Ile	Leu	His	Tyr	Thr	Glu
	195						200					205			
Asn	Glu	Ser	Glu	Leu	Arg	Asp	Gly	Asp	Leu	Val	Leu	Ile	Asp	Ala	Gly
	210					215					220				
Cys	Glu	Tyr	Gln	Gly	Tyr	Ala	Gly	Asp	Ile	Thr	Arg	Thr	Phe	Pro	Val
225					230					235					240
Asn	Gly	Lys	Phe	Thr	Thr	Ala	Gln	Arg	Glu	Ile	Tyr	Asp	Ile	Val	Leu
			245						250					255	
Glu	Ser	Leu	Glu	Thr	Ala	Leu	Thr	Leu	Phe	Arg	Pro	Gly	Thr	Ser	Ile
		260						265					270		
Gln	Glu	Val	Thr	Gly	Glu	Val	Val	Arg	Ile	Met	Ile	Thr	Gly	Leu	Val
		275					280					285			
Lys	Leu	Gly	Ile	Leu	Lys	Gly	Asp	Val	Asp	Thr	Leu	Ile	Thr	Glu	Asn
	290					295					300				
Ala	His	Arg	Pro	Tyr	Phe	Met	His	Gly	Leu	Ser	His	Trp	Leu	Gly	Leu
305					310					315					320
Asp	Val	His	Asp	Val	Gly	Ala	Tyr	Gly	Pro	Glu	Arg	Ser	Arg	Val	Leu
			325						330					335	
Glu	Pro	Gly	Met	Val	Leu	Thr	Val	Glu	Pro	Gly	Leu	Tyr	Ile	Ala	Pro
		340						345					350		
Asp	Ala	Asp	Val	Pro	Glu	Arg	Tyr	Arg	Gly	Ile	Gly	Ile	Arg	Ile	Glu
		355					360					365			
Asp	Asp	Ile	Val	Ile	Thr	Glu	Thr	Gly	Asn	Glu	Asn	Leu	Thr	Ala	Thr
	370					375					380				
Val	Val	Lys	Lys	Ala	Asp	Asp	Ile	Glu	Ala	Leu	Met	Ala	Ala	Ala	Arg
385					390					395					400
Val															

<210> 6344

<211> 390

<212> PRT

<213> Enterobacter cloacae

<400> 6344

Lys	Arg	Thr	Phe	Ala	Ser	Ala	Pro	Asp	Arg	Glu	Ala	Asp	Thr	Gly	Phe
1			5					10						15	
His	Gly	Glu	Phe	Asn	Glu	Glu	Lys	Met	Ala	Gln	Gln	Thr	Pro	Leu	
		20					25					30			
Tyr	Glu	Gln	His	Val	Leu	Cys	Gly	Ala	Arg	Met	Val	Asp	Phe	His	Gly
	35					40					45				
Trp	Met	Met	Pro	Leu	His	Tyr	Gly	Ser	Gln	Ile	Asp	Glu	His	His	Ala

50	55	60
Val Arg Thr Asp Ala Gly Met Phe Asp Val Ser His Met Thr Ile Val		
65	70	75
Asp Leu Arg Gly Ser Arg Thr Arg Glu Phe Leu Arg Tyr Leu Leu Ala		80
	85	90
Asn Asp Val Ala Lys Leu Lys Thr Pro Gly Lys Ala Leu Tyr Thr Gly		95
	100	105
Met Leu Asn Ala Ser Gly Gly Val Ile Asp Asp Leu Ile Val Tyr Tyr		110
	115	120
Phe Thr Glu Asp Phe Phe Arg Leu Val Val Asn Ser Ala Thr Arg Glu		125
	130	135
Lys Asp Leu Ser Trp Ile Ser Gln His Ala Glu Pro Tyr Ala Ile Asp		140
145	150	155
Ile Thr Val Arg Asp Asp Leu Ser Leu Ile Ala Val Gln Gly Pro Asn		160
	165	170
Ala Gln Ala Lys Ala Ala Ser Leu Phe Ser Asp Glu Gln Arg Lys Ala		175
	180	185
Thr Glu Gly Met Lys Pro Phe Phe Gly Val Gln Ala Gly Asp Leu Phe		190
	195	200
Ile Ala Thr Thr Gly Tyr Thr Gly Glu Ala Gly Tyr Glu Ile Ala Met		205
210	215	220
Pro Asn Glu Lys Ala Ala Asp Phe Trp Arg Ala Leu Val Glu Ala Gly		225
225	230	235
Val Lys Pro Ala Gly Leu Gly Ala Arg Asp Thr Leu Arg Leu Glu Ala		240
	245	250
Gly Met Asn Leu Tyr Gly Gln Glu Met Asp Glu Gly Val Ser Pro Leu		255
	260	265
Ala Ala Asn Met Gly Trp Thr Ile Ala Trp Glu Pro Ala Asp Arg Asp		270
	275	280
Phe Ile Gly Arg Glu Ala Leu Glu Met Gln Arg Glu Lys Gly Thr Glu		285
290	295	300
Gln Leu Val Gly Leu Val Met Lys Glu Lys Gly Val Leu Arg Gly Glu		305
305	310	315
Leu Pro Val Arg Phe Thr Asp Ala Asp Gly Asn His Arg Glu Gly Val		320
	325	330
Ile Thr Ser Gly Thr Phe Ser Pro Thr Leu Gly Tyr Ser Ile Ala Leu		335
	340	345
Ala Arg Val Pro Ala Gly Ile Gly Glu Thr Ala Val Val Gln Ile Arg		350
	355	360
Asn Arg Glu Met Pro Val Asn Val Thr Lys Pro Ile Phe Val Arg Ala		365
370	375	380
Gly Lys Pro Val Ala		
385	390	

<210> 6345

<211> 345

<212> PRT

<213> Enterobacter cloacae

<400> 6345

Arg Val Val Asn Met Ile Thr Ile Arg Asp Val Ala Arg Gln Ala Gly	
1	5
Val Ser Val Ala Thr Val Ser Arg Val Leu Asn Asn Ser Ala Leu Val	
	10
Ser Pro Glu Thr Arg Glu Thr Val Met Lys Ala Val Thr Gln Leu Gly	
	15
Tyr Arg Pro Asn Ala Asn Ala Gln Ala Leu Ala Thr Gln Val Ser Asp	
	20
Thr Ile Gly Val Val Val Met Asp Val Ser Asp Ala Phe Phe Gly Ala	
65	70
Leu Val Lys Ala Val Asp Val Val Ala Gln Gln His Gln Lys Tyr Val	
	75

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<210> 6346
<211> 393
<212> PRT
<213> Enterobacter cloacae
```

Ile	Tyr	Phe	Ser	Leu	Thr	Ile	Gly	Ala	Ile	Met	Ala	Leu	Arg	Ile	Ala
1				5					10					15	
Leu	Ser	Gly	Phe	Val	Val	Leu	Val	Val	Ala	Met	Gly	Ile	Gly	Arg	Phe
			20					25					30		
Ala	Phe	Thr	Pro	Gln	Val	Pro	Leu	Met	Ile	Ala	Ala	Gly	Gln	Leu	Thr
			35				40					45			
Leu	Thr	Ser	Ala	Gly	Leu	Val	Ala	Ala	Met	Asn	Tyr	Leu	Gly	Tyr	Leu
						55					60				
Val	Gly	Ala	Trp	Asp	Ala	Met	Arg	Ala	His	Arg	Phe	Val	Glu	Thr	Arg
65					70					75					80
Leu	Trp	Leu	Gly	Ile	Thr	Gly	Ala	Val	Ala	Leu	Thr	Leu	Leu	Ser	Ala
				85					90					95	
Ala	Ala	Glu	Asn	Ala	Val	Val	His	Gly	Leu	Leu	Arg	Phe	Val	Ile	Gly
			100					105					110		
Cys	Met	Ser	Gly	Trp	Ser	Met	Val	Leu	Ile	Ala	Ala	Trp	Thr	Asn	Glu
			115				120					125			
Arg	Leu	Gly	Gln	Leu	Gly	Lys	Pro	Gly	Leu	Ser	Ala	Ala	Val	Phe	Ala
						135					140				
Gly	Pro	Gly	Ala	Gly	Ile	Ala	Leu	Ser	Gly	Leu	Leu	Ala	Val	Tyr	Ile
145					150					155					160
Gln	Ala	Lys	Ser	Leu	Ser	Ala	Gly	Ala	Ala	Trp	Gln	Ile	Tyr	Gly	Val


```
<210> 6347
<211> 253
<212> PRT
<213> Enterobacter cloacae
```

<400>	6347														
Ile	Leu	Asp	Tyr	Val	Arg	Arg	Leu	Thr	His	Asn	Glu	Arg	Thr	Leu	Leu
1				5					10					15	
Pro	Gln	Arg	Gly	Gln	Lys	Thr	Pro	His	Leu	Gln	Glu	Lys	Arg	Met	Ser
			20					25					30		
Ser	Leu	Ser	Lys	Glu	Ala	Ala	Leu	Val	His	Glu	Ala	Leu	Val	Ala	Arg
			35				40					45			
Gly	Leu	Glu	Thr	Pro	Leu	Arg	Pro	Pro	Val	Gln	Glu	Leu	Asp	Asn	Val
	50					55					60				
Thr	Arg	Lys	Arg	Leu	Ile	Ala	Gly	His	Met	Thr	Glu	Ile	Met	Gln	Leu
65					70					75					80
Leu	Asn	Leu	Asp	Leu	Ser	Asp	Asp	Ser	Leu	Met	Glu	Thr	Pro	His	Arg
				85					90					95	
Ile	Ala	Lys	Met	Tyr	Val	Asp	Glu	Ile	Phe	Ser	Gly	Leu	Asp	Tyr	Ala
			100					105					110		
Asn	Phe	Pro	Lys	Ile	Thr	Val	Ile	Glu	Asn	Lys	Met	Lys	Val	Asp	Glu
		115					120					125			
Met	Val	Thr	Val	Arg	Asp	Ile	Thr	Leu	Thr	Ser	Thr	Cys	Glu	His	His
		130				135					140				
Phe	Val	Thr	Ile	Asp	Gly	Lys	Ala	Thr	Val	Ala	Tyr	Ile	Pro	Lys	Asp
145					150					155					160
Thr	Val	Ile	Gly	Leu	Ser	Lys	Ile	Asn	Arg	Ile	Val	Gln	Phe	Phe	Ala
			165						170					175	
Gln	Arg	Pro	Gln	Val	Gln	Glu	Arg	Leu	Thr	Gln	Gln	Ile	Leu	Thr	Ala
			180					185					190		
Leu	Gln	Thr	Leu	Leu	Gly	Thr	Asn	Asn	Val	Ala	Val	Ser	Ile	Asp	Ala

```
<210> 6348
<211> 392
<212> PRT
<213> Enterobacter cloacae
```

Ser	Asp	Arg	Ala	Gly	Thr	Met	Glu	Arg	Asn	Val	Thr	Leu	Asp	Phe	Val
1				5					10					15	
Arg	Gly	Val	Ala	Ile	Leu	Gly	Ile	Leu	Leu	Leu	Asn	Ile	Ser	Ala	Phe
			20					25					30		
Gly	Leu	Pro	Lys	Ala	Ala	Tyr	Leu	Asn	Pro	Ala	Trp	Tyr	Gly	Asp	Ile
		35					40					45			
Thr	Arg	Ser	Asp	Ala	Trp	Thr	Trp	Ala	Ile	Leu	Asp	Leu	Phe	Ala	Gln
	50					55					60				
Val	Lys	Phe	Leu	Thr	Leu	Phe	Ala	Leu	Leu	Phe	Gly	Ala	Gly	Leu	Gln
65					70					75					80
Leu	Leu	Leu	Lys	Arg	Gly	Thr	Arg	Trp	Ile	Gln	Ser	Arg	Leu	Thr	Leu
			85						90					95	
Leu	Val	Ile	Leu	Gly	Phe	Ile	His	Gly	Leu	Leu	Phe	Trp	Asp	Gly	Asp
			100					105					110		
Ile	Leu	Leu	Ala	Tyr	Gly	Leu	Val	Gly	Leu	Ile	Cys	Trp	Arg	Leu	Ile
		115					120					125			
Arg	Asp	Ala	Pro	Gly	Val	Lys	Ser	Leu	Phe	Asn	Thr	Gly	Val	Met	Leu
	130					135					140				
Tyr	Val	Met	Gly	Leu	Ala	Val	Leu	Leu	Leu	Leu	Gly	Met	Ile	Ala	Asp
145					150						155				160
Asp	Ser	Thr	Ser	Arg	Ser	Trp	Ile	Pro	Asp	Ala	Ala	Asn	Leu	Gln	Tyr
			165						170					175	
Glu	Gln	Phe	Trp	Lys	Leu	Lys	Gly	Gly	Met	Glu	Ala	Ile	Gly	Asn	Arg
			180					185					190		
Ala	Asp	Met	Leu	Gly	Asp	Asn	Leu	Leu	Ala	Leu	Gly	Ala	Gln	Tyr	Gly
		195					200					205			
Trp	Gln	Leu	Ala	Gly	Met	Met	Leu	Met	Gly	Ala	Ala	Leu	Met	Arg	Thr
	210					215					220				
Gly	Trp	Leu	Lys	Gly	Glu	Phe	Ser	Leu	Arg	His	Tyr	Arg	Arg	Thr	Gly
225					230					235					240
Ala	Gly	Leu	Val	Leu	Leu	Gly	Val	Ile	Ile	Asn	Leu	Pro	Ala	Val	Met
			245							250				255	
Met	Gln	Trp	His	Leu	Gln	Trp	Asp	Tyr	Arg	Trp	Cys	Ala	Phe	Leu	Leu
			260					265					270		
Gln	Val	Pro	Arg	Glu	Leu	Ser	Ala	Pro	Phe	Gln	Thr	Ile	Gly	Tyr	Ala
		275					280					285			
Ala	Leu	Ile	Tyr	Gly	Phe	Trp	Pro	Gln	Leu	Ser	Arg	Leu	Trp	Ile	Val
	290					295					300				
Ser	Ala	Val	Ala	Cys	Val	Gly	Arg	Met	Ala	Leu	Ser	Asn	Tyr	Ile	Leu
305					310					315					320
Gln	Thr	Leu	Ile	Cys	Thr	Thr	Leu	Phe	Tyr	Arg	Phe	Gly	Leu	Phe	Met
			325						330					335	
Lys	Phe	Asp	Arg	Leu	Thr	Leu	Leu	Ala	Phe	Val	Ile	Pro	Val	Trp	Ile
			340												

370 375 380
 Ser Leu Arg Asn Thr Ser Arg
 385 390

<210> 6349
 <211> 322
 <212> PRT
 <213> Enterobacter cloacae

<400> 6349
 Thr Leu Ser Ala Val Met Ala Ser Met Leu Phe Gly Ala Ala Ala His
 1 5 10 15
 Ala Ala Asp Thr Arg Ile Gly Val Thr Ile Tyr Lys Tyr Asp Asp Asn
 20 25 30
 Phe Met Ser Val Val Arg Lys Ala Ile Glu Lys Asp Ala Lys Ser Ala
 35 40 45
 Pro Asp Val Gln Leu Leu Met Asn Asp Ser Gln Asn Asp Gln Ser Lys
 50 55 60
 Gln Asn Asp Gln Ile Asp Val Leu Leu Ala Lys Gly Val Lys Ala Leu
 65 70 75 80
 Ala Ile Asn Leu Val Asp Pro Ala Ala Ala Gly Thr Val Ile Glu Lys
 85 90 95
 Ala Arg Gly Gln Asn Val Pro Ile Val Phe Phe Asn Lys Glu Pro Ser
 100 105 110
 Arg Lys Ala Leu Asp Ser Tyr Asp Lys Ala Tyr Tyr Val Gly Thr Asp
 115 120 125
 Ser Lys Glu Ser Gly Ile Ile Gln Gly Asp Leu Ile Ala Lys His Trp
 130 135 140
 Ala Ala Asn Pro Asn Trp Asp Leu Asn Lys Asp Gly Gln Ile Gln Phe
 145 150 155 160
 Val Leu Leu Lys Gly Glu Pro Gly His Pro Asp Ala Glu Ala Arg Thr
 165 170 175
 Thr Tyr Val Ile Lys Glu Leu Asn Asp Lys Gly Leu Lys Thr Gln Gln
 180 185 190
 Leu Ala Leu Asp Thr Ala Met Trp Asp Thr Ala Gln Ala Lys Asp Lys
 195 200 205
 Met Asp Ala Trp Leu Ser Gly Pro Asn Ala Asn Lys Ile Glu Val Val
 210 215 220
 Ile Ala Asn Asn Asp Ala Met Ala Met Gly Ala Val Glu Ala Leu Lys
 225 230 235 240
 Ala His Asn Lys Ser Ala Ile Pro Val Phe Gly Val Asp Ala Leu Pro
 245 250 255
 Glu Ala Leu Ala Leu Val Lys Ser Gly Ala Met Ala Gly Thr Val Leu
 260 265 270
 Asn Asp Ala Asn Asn Gln Ala Lys Ala Thr Phe Asp Leu Ala Lys Asn
 275 280 285
 Leu Ala Asp Gly Lys Gly Ala Ala Asp Gly Thr Asn Trp Lys Val Asp
 290 295 300
 Asn Lys Ile Val Arg Val Pro Tyr Val Gly Val Tyr Gln Ser Asn Leu
 305 310 315 320
 Gly

<210> 6350
 <211> 293
 <212> PRT
 <213> Enterobacter cloacae

<400> 6350
 Lys Leu Cys Ile Met Arg Phe Met Asn Ser Leu Ser Tyr Lys Glu Pro
 1 5 10 15

Cys Met Glu Leu Leu Glu Glu His Arg Cys Phe Glu Gly Arg Gln Gln
 20 25 30
 Arg Trp Arg His Asp Ser Thr Thr Leu Asn Cys Ala Met Thr Phe Ser
 35 40 45
 Ile Phe Leu Pro Pro Ala Asp Asn Pro Pro Val Leu Tyr Trp Leu Ser
 50 55 60
 Gly Leu Thr Cys Asn Asp Glu Asn Phe Thr Thr Lys Ala Gly Ala Gln
 65 70 75 80
 Arg Ile Ala Ala Glu Leu Gly Ile Ala Leu Val Met Pro Asp Thr Ser
 85 90 95
 Pro Arg Gly Glu Asp Val Ala Asp Asp Ala Gly Tyr Asp Leu Gly Lys
 100 105 110
 Gly Ala Gly Phe Tyr Leu Asn Ala Thr Glu Gln Pro Trp Ala Arg His
 115 120 125
 Tyr Arg Met Tyr Asp Tyr Ile Arg Asp Glu Leu Pro Ala Leu Val His
 130 135 140
 Ser Gln Phe Ala Val Ser Glu Arg Cys Ala Ile Ser Gly His Ser Met
 145 150 155 160
 Gly Gly His Gly Ala Leu Ile Met Ala Leu Lys Asn Pro Gly Lys Tyr
 165 170 175
 Thr Ser Val Ser Ala Phe Ala Pro Ile Val Asn Pro Thr Gln Val Pro
 180 185 190
 Trp Gly Gln Lys Ala Phe Arg His Tyr Leu Gly Glu Asp Leu Glu Lys
 195 200 205
 Trp Gln Glu Trp Asp Ser Cys Ala Leu Met Leu Ala Ser Gln Ser Glu
 210 215 220
 Asp Ala Ile Pro Met Leu Val Asp Gln Gly Asp Ala Asp Gln Phe Leu
 225 230 235 240
 Ala Gly Gln Leu Gln Pro Ala Val Leu Ala Glu Ala Ala Arg Gln Lys
 245 250 255
 Asp Trp Pro Leu Thr Leu Arg Ile Gln Pro Gly Tyr Asp His Ser Tyr
 260 265 270
 Tyr Phe Met Ala Ser Phe Ile Glu Asp His Leu Arg Phe His Ala Glu
 275 280 285
 His Leu Phe Arg
 290

<210> 6351

<211> 221

<212> PRT

<213> Enterobacter cloacae

<400> 6351

Leu Val Val Val Thr His Gly Ala Gln Glu Leu Leu Ala Gly Val Leu
 1 5 10 15
 Ala Arg Phe Glu Gln Ala Ala Gln Arg Ser Gly Gly Gly Cys Ala Gly
 20 25 30
 Ser Ile Thr His Ala Ala Arg Phe His Ala Val Val His Arg Val Asp
 35 40 45
 Arg His Arg His Ile Val Ser Pro Gln Gln Gly Leu Gln Cys Gly Gln
 50 55 60
 Asp Leu Leu Arg Gln Thr Phe Leu His Leu Arg Thr Leu Gly Lys Glu
 65 70 75 80
 Leu His Asp Ala Val Asp Leu Gly Gln Ala Asp Asp Arg Ile Phe Trp
 85 90 95
 Asn Ile Gly His Arg Arg Phe Thr Ile Asp Gly His Lys Val Met Leu
 100 105 110
 Ala Gly Ala Gly Gln Arg Asp Ile Ala Tyr Arg His His Leu Ile Asp
 115 120 125
 Leu His Leu Ile Phe Asn Asp Gly Asp Phe Arg Glu Val Arg Val Ile
 130 135 140

Gln	Ala	Gly	Glu	Asn	Phe	Val	Asp	Val	His	Leu	Arg	Asp	Ala	Val	Arg
145					150					155					160
Arg	Leu	His	Gln	Ala	Val	Val	Ala	Gln	Ile	Glu	Ile	Gln	Gln	Leu	His
				165					170						175
Asp	Leu	Arg	His	Met	Ala	Gly	Asp	Gln	Thr	Leu	Ala	Gly	Asn	Ile	Val
			180					185					190		
Gln	Leu	Leu	His	Gly	Arg	Ala	Gln	Trp	Arg	Phe	Lys	Thr	Ala	Arg	Asn
		195					200					205			
Gln	Arg	Phe	Met	Asp	Lys	Gly	Cys	Phe	Phe	Thr	Glu				
	210					215					220				

<210> 6352

<211> 222

<212> PRT

<213> Enterobacter cloacae

<400> 6352

Ile	Gln	Pro	Val	Phe	Arg	Arg	His	His	Ser	Asn	Thr	Asn	Asp	Phe	Asn
1				5					10					15	
Tyr	His	Leu	Cys	Leu	Gln	Phe	Tyr	Ile	Leu	Leu	Tyr	Asn	Ser	Arg	Leu
			20					25					30		
Phe	Ser	Ile	Ser	Lys	Ser	Ser	Tyr	Lys	Thr	Lys	Thr	Tyr	Ser	Ser	Gln
		35					40					45			
Gly	Tyr	Pro	Asp	Gly	Val	Phe	Phe	Ile	Phe	Ile	Arg	Asn	Val	Gln	Met
	50					55					60				
Thr	Ile	Pro	Arg	Ile	Lys	Leu	Leu	Ala	Val	Ala	Ile	Gly	Ala	Ala	Thr
65					70				75						80
Cys	Ser	Pro	Phe	Val	His	Ala	Ala	Asp	Gln	Asp	Thr	Val	Val	Val	Thr
				85				90						95	
Ala	Thr	Gly	Phe	Glu	Gln	Lys	Ile	Gln	Asn	Ala	Pro	Ala	Ser	Ile	Ser
			100					105					110		
Val	Ile	Ser	Lys	Gln	Gln	Ile	Glu	Asp	Lys	Ala	Tyr	Arg	Asp	Val	Thr
		115					120					125			
Asp	Ala	Leu	Arg	Asp	Val	Pro	Gly	Val	Val	Val	Thr	Gly	Gly	Gly	Ser
	130					135					140				
Ser	Ser	Asp	Ile	Ser	Ile	Arg	Gly	Met	Ala	Ser	Gln	Tyr	Thr	Leu	Phe
145					150				155						160
Leu	Val	Asn	Gly	Lys	Arg	Val	Ser	Thr	Arg	Ser	Thr	Arg	Pro	Asn	Ser
				165					170					175	
Asp	Asn	Ser	Gly	Ile	Glu	Gln	Gly	Trp	Leu	Pro	Pro	Leu	Glu	Ser	Ile
			180					185					190		
Glu	Arg	Ile	Glu	Val	Ile	Arg	Gly	Pro	Met	Ser	Ser	Leu	Tyr	Gly	Ser
		195					200					205			
Asp	Ala	Met	Gly	Gly	Val	Met	Asp	Val	Ile	Thr	Gln	Asn	Ser		
	210					215					220				

<210> 6353

<211> 204

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (6)

<220>

<221> UNSURE

<222> (7)

<220>

<221> UNSURE

<222> (8)

<220>

<221> UNSURE

<222> (9)

<220>

<221> UNSURE

<222> (10)

<220>

<221> UNSURE

<222> (14)

<220>

<221> UNSURE

<222> (21)

<220>

<221> UNSURE

<222> (22)

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<221> UNSURE

<222> (23)

<220>

<221> UNSURE

<222> (26)

<220>

<221> UNSURE

<222> (27)

<220>

<221> UNSURE

<222> (33)

<220>

<221> UNSURE

<222> (40)

<400> 6353

Arg	Gly	Gly	Glu	Gly	Xaa	Xaa	Xaa	Xaa	Xaa	Leu	Phe	Pro	Xaa	Pro	Gly
1				5					10					15	
Ala	Trp	Ala	Ser	Xaa	Xaa	Xaa	His	Pro	Xaa	Xaa	Pro	Asn	Ser	Phe	Pro
			20					25					30		
Xaa	Gly	Leu	Ser	Pro	Lys	Pro	Xaa	Ala	Arg	Pro	Leu	Thr	Ser	Gly	Cys
		35					40					45			
Asn	Pro	Arg	Thr	Asn	Ile	Ser	Val	Glu	Leu	Met	Pro	Gln	Ser	Arg	Ile
		50				55					60				
Lys	Leu	Asp	Ala	Asn	Leu	Lys	Asp	Phe	Glu	Ala	Gln	Leu	Ala	Ala	Thr
		65			70					75					80
Asp	Lys	Gln	Val	Gly	Asn	Glu	Leu	Ala	Pro	Leu	Lys	Gly	Lys	Gly	Tyr
				85					90					95	
Phe	Val	Phe	His	Asp	Ala	Tyr	Gly	Tyr	Tyr	Glu	Lys	His	Tyr	Gly	Leu
			100					105					110		
Thr	Pro	Leu	Gly	His	Phe	Thr	Val	Asn	Pro	Glu	Ile	Gln	Pro	Gly	Ala
		115					120					125			
Gln	Arg	Leu	His	Glu	Ile	Arg	Thr	Gln	Leu	Val	Glu	Gln	Lys	Ala	Thr
	130						135					140			

Cys Val Phe Ala Glu Pro Gln Phe Arg Pro Ala Val Val Glu Ala Val
 145 150 155 160
 Ala Arg Gly Thr Ser Val Arg Met Gly Thr Leu Asp Pro Leu Gly Thr
 165 170 175
 Asn Ile Gln Leu Ser Lys Ala Ser Tyr Ser Gln Phe Leu Ser Gln Leu
 180 185 190
 Ala Asn Gln Tyr Ala Ser Cys Leu Lys Gly Asp
 195 200

<210> 6354

<211> 445

<212> PRT

<213> Enterobacter cloacae

<400> 6354

Arg Gly Ser Glu Tyr Val Gln Gln Ile Ala Arg Ser Val Ala Leu Ala
 1 5 10 15
 Phe Asn Asn Leu Pro Arg Pro His Arg Val Met Leu Gly Ser Leu Thr
 20 25 30
 Val Leu Thr Leu Ala Val Ala Val Trp Arg Pro Tyr Val Tyr His Pro
 35 40 45
 Ser Ser Ala Pro Ile Ile Lys Thr Ile Glu Leu Glu Lys Ser Glu Ile
 50 55 60
 Arg Ser Leu Leu Pro Glu Ala Ser Glu Pro Ile Asp Gln Ala Ala Gln
 65 70 75 80
 Glu Asp Glu Ala Ile Pro Gln Asp Glu Leu Asp Asp Lys Ile Gln Asn
 85 90 95
 Glu Ala Gly Ile His Glu Tyr Val Val Ser Thr Gly Asp Thr Leu Ser
 100 105 110
 Ser Val Leu Asn Gln Tyr Gly Ile Asp Met Gly Asn Ile Ser Gln Leu
 115 120 125
 Ala Ala Ser Asp Lys Glu Leu Arg Asn Leu Lys Ile Gly Gln Gln Leu
 130 135 140
 Ser Trp Thr Leu Thr Pro Asp Gly Asp Leu Gln Arg Leu Thr Trp Glu
 145 150 155 160
 Met Ser Arg Arg Glu Thr Arg Thr Tyr Asp Arg Thr Ala Asn Gly Phe
 165 170 175
 Lys Met Thr Ser Glu Leu Gln Gln Gly Asp Trp Val Asn Ser Val Met
 180 185 190
 Lys Gly Thr Val Gly Gly Ser Phe Val Ser Ser Ala Arg Asp Ala Gly
 195 200 205
 Leu Thr Ser Ala Glu Ile Ser Ser Val Ile Lys Ala Met Gln Trp Gln
 210 215 220
 Met Asp Phe Arg Lys Leu Lys Lys Gly Asp Gln Phe Ser Val Leu Met
 225 230 235 240
 Ser Arg Glu Met Leu Asp Gly Lys Arg Glu Gln Ser Gln Leu Val Gly
 245 250 255
 Val Arg Leu Arg Ser Asp Gly Lys Asp Tyr Tyr Ala Ile Arg Ala Glu
 260 265 270
 Asp Gly Lys Phe Tyr Asp Arg Ser Gly Thr Gly Leu Ala Lys Gly Phe
 275 280 285
 Leu Arg Phe Pro Thr Ala Lys Gln Phe Arg Val Ser Ser Asn Phe Asn
 290 295 300
 Pro Arg Arg Leu Asn Pro Val Thr Gly Arg Val Ala Pro His Arg Gly
 305 310 315 320
 Val Asp Phe Ala Met Pro Gln Gly Thr Pro Val Leu Ala Val Gly Asp
 325 330 335
 Gly Glu Val Val Met Ala Lys Arg Ser Gly Ala Ala Gly Tyr Tyr Val
 340 345 350
 Ala Ile Arg His Gly Arg Thr Tyr Thr Thr Arg Tyr Met His Leu Arg
 355 360 365

Lys Leu Leu Val Lys Pro Gly Gln Lys Val Lys Arg Gly Asp Arg Ile
 370 375 380
 Ala Leu Ser Gly Asn Thr Gly Arg Ser Thr Gly Pro His Leu His Tyr
 385 390 395 400
 Glu Val Trp Ile Asn Gln Gln Ala Val Asn Pro Leu Thr Ala Lys Leu
 405 410 415
 Pro Arg Thr Glu Gly Leu Thr Gly Lys Asp Arg Lys Asp Tyr Leu Ala
 420 425 430
 Gln Val Lys Glu Val Met Pro Gln Leu Arg Phe Asp
 435 440 445

<210> 6355

<211> 72

<212> PRT

<213> Enterobacter cloacae

<400> 6355

Lys Ala Gly Val Ser Met Arg Arg Leu Phe Leu Leu Cys Ala Gly Gly
 1 5 10 15
 Ser Leu Ala Thr Leu Ser Ala Tyr Ile Phe Ala Ser Pro Asp Pro Gly
 20 25 30
 Thr Arg Met Glu Thr Lys Lys Asn Ile Glu Tyr Ile His Glu Phe
 35 40 45
 Glu Lys Ser Phe Arg His Pro Arg Asn Trp Gly Ala Trp Ile Gly Val
 50 55 60
 Tyr Ala Phe Ala Gly Met Ala
 65 70

<210> 6356

<211> 286

<212> PRT

<213> Enterobacter cloacae

<400> 6356

Leu Pro Ala Thr Leu Arg Asp Pro Val Leu Gly Lys Val Gly Arg Leu
 1 5 10 15
 Ala Gly Arg Leu Gly Lys Ser Ala Arg Arg Arg Ala Gln Ile Asn Leu
 20 25 30
 Leu Tyr Cys Phe Pro Asp Lys Ser Asp Ala Glu Arg Glu Ala Ile Ile
 35 40 45
 Asp Asp Met Tyr Thr Thr Ala Pro Gln Ala Met Ala Met Met Ala Glu
 50 55 60
 Leu Ala Leu Lys Gly Pro Glu Lys Ile Val Glu Arg Val Asp Trp Lys
 65 70 75 80
 Gly Leu Glu Ile Ile Asp Glu Met Arg Arg Asn Asp Glu Lys Val Ile
 85 90 95
 Phe Leu Val Pro His Gly Trp Gly Val Asp Ile Pro Ala Met Leu Met
 100 105 110
 Ala Ser Gln Gly Gln Lys Met Ala Ala Met Phe His Asn Gln Gly Asn
 115 120 125
 Lys Ile Tyr Asp Phe Val Trp Asn Thr Val Arg Arg Arg Phe Gly Gly
 130 135 140
 Arg Leu His Ala Arg Asn Asp Gly Ile Lys Pro Phe Ile Gln Ser Val
 145 150 155 160
 Arg Gln Gly Tyr Trp Gly Tyr Tyr Leu Pro Asp Gln Asp His Gly Pro
 165 170 175
 Glu His Ser Glu Phe Val Asp Phe Phe Ala Thr Tyr Lys Ala Thr Leu
 180 185 190
 Pro Ala Ile Gly Arg Leu Met Lys Val Cys Arg Ala Arg Val Ile Pro
 195 200 205
 Leu Phe Pro Ala Tyr Asp Gly Lys Thr His Arg Leu Ser Ile Glu Val

210		215		220											
Arg	Pro	Pro	Met	Asp	Asp	Leu	Leu	Thr	Ala	Asp	Asp	His	Thr	Ile	Ala
225				230						235					240
Arg	Arg	Met	Asn	Glu	Glu	Val	Glu	Val	Leu	Val	Gly	Pro	His	Lys	Glu
				245						250					255
Gln	Tyr	Thr	Trp	Ile	Leu	Lys	Leu	Leu	Lys	Thr	Arg	Lys	Pro	Gly	Glu
			260					265					270		
Thr	Glu	Pro	Tyr	Lys	Arg	Lys	Glu	Leu	Phe	Pro	Lys	Lys			
		275					280					285			

<210> 6357

<211> 257

<212> PRT

<213> Enterobacter cloacae

<400> 6357

Trp	Phe	Gln	Glu	Thr	Arg	Lys	Ser	Ser	Thr	Val	His	Cys	Asn	Lys	Ile
1				5					10					15	
Thr	Thr	Ile	Pro	Gly	Arg	Val	Pro	Gly	Asp	Leu	Thr	Glu	Glu	Asn	Asp
			20					25					30		
Met	Ala	Val	Thr	Gln	Thr	Ala	Gln	Ala	Cys	Asp	Leu	Val	Ile	Phe	Gly
		35					40					45			
Ala	Lys	Gly	Asp	Leu	Ala	Arg	Arg	Lys	Leu	Leu	Pro	Ser	Leu	Tyr	Gln
	50					55					60				
Leu	Glu	Lys	Ala	Gly	Gln	Ile	His	Pro	Asp	Thr	Arg	Ile	Leu	Gly	Val
65				70					75					80	
Gly	Arg	Ala	Asp	Trp	Asp	Lys	Glu	Ala	Tyr	Thr	Lys	Val	Val	Arg	Glu
			85					90					95		
Ala	Leu	Glu	Thr	Phe	Met	Lys	Glu	Lys	Ile	Asp	Glu	Ser	Leu	Trp	Asp
		100					105						110		
Lys	Leu	Ser	Gly	Arg	Leu	Asp	Phe	Cys	Asn	Leu	Asp	Val	Asn	Asp	Val
		115				120						125			
Gly	Ala	Phe	Thr	Arg	Leu	Gly	Glu	Met	Leu	Asp	Gln	Glu	Asn	Arg	Val
	130					135					140				
Thr	Ile	Asn	Tyr	Phe	Ala	Met	Pro	Pro	Ser	Thr	Phe	Gly	Ala	Ile	Cys
145				150					155					160	
Lys	Gly	Leu	Gly	Glu	Ala	Lys	Leu	Asn	Ala	Lys	Pro	Ala	Arg	Val	Val
			165					170						175	
Met	Glu	Lys	Pro	Leu	Gly	Thr	Ser	Leu	Ala	Thr	Ser	Arg	Glu	Ile	Asn
		180					185						190		
Asp	Gln	Val	Gly	Glu	Phe	Phe	Glu	Cys	Gln	Val	Tyr	Arg	Ile	Asp	
		195				200					205				
His	Tyr	Leu	Gly	Lys	Glu	Thr	Val	Thr	Glu	Leu	Ala	Gly	Val	Ala	Phe
	210					215					220				
Cys	Gln	Leu	Pro	Val	Cys	Glu	Gln	Met	Gly	Gln	Pro	His	Tyr	Arg	Pro
225				230					235						240
Arg	Gly	Asn	Tyr	Arg	Gly	Gly	Arg	Gly	Gly	His	Arg	Ser	Pro	Leu	Gly
				245				250						255	

<210> 6358

<211> 253

<212> PRT

<213> Enterobacter cloacae

<400> 6358

Ala	Ser	Ser	Leu	Arg	Ser	Val	Arg	Phe	Thr	Val	Leu	Thr	Thr	Ile	Trp
1				5					10					15	
Ala	Lys	Arg	Arg	Leu	Leu	Asn	Leu	Leu	Ala	Trp	Arg	Phe	Ala	Asn	Ser
			20					25					30		

```

Leu Phe Val Asn Lys Trp Asp Asn Arg Thr Ile Asp His Val Glu Ile
    35          40          45
Thr Val Ala Glu Glu Val Gly Ile Glu Ala Arg Trp Gly Asn Phe Asp
    50          55          60
Gln Ala Gly Gln Met Arg Asp Met Ile Gln Asn His Leu Leu Gln Ile
    65          70          75          80
Leu Cys Met Ile Ala Met Ser Pro Pro Ser Asp Leu Thr Ala Asp Ser
    85          90          95
Ile Arg Asp Ala Lys Val Lys Val Leu Lys Ser Leu Arg Arg Ile Asp
    100          105          110
Arg Ser Asn Val Arg Glu Lys Thr Val Arg Gly Gln Tyr Thr Ala Gly
    115          120          125
Phe Ala Gln Gly Lys Lys Val Pro Gly Tyr Leu Glu Glu Gly Ala
    130          135          140
Asn Lys Ser Ser Asn Thr Glu Thr Phe Val Ala Ile Arg Val Asp Ile
    145          150          155          160
Asp Asp Trp Arg Trp Ala Gly Val Pro Phe Tyr Leu Arg Thr Gly Lys
    165          170          175
Arg Leu Pro Ala Lys Cys Ser Glu Val Val Val Tyr Phe Lys Asn Pro
    180          185          190
Glu Leu Asn Leu Phe Lys Glu Ser Trp Gln Glu Leu Pro Gln Asn Lys
    195          200          205
Leu Thr Ile Arg Leu Gln Pro Asp Glu Gly Val Asp Ile Gln Ile Leu
    210          215          220
Asn Lys Val Pro Gly Leu Asp His Lys His Asn Leu Gln Thr Thr Lys
    225          230          235          240
Leu Asp Leu Ser Tyr Ser Asp Thr Val His His Tyr
    245          250

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<210> 6359

<211> 314

<212> PRT

<213> Enterobacter cloacae

<400> 6359

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Tyr Arg Leu Asn Arg Ile Lys Val Ser Ser Leu Tyr Glu Ile Val Tyr
1          5          10          15
Ala Leu Met Ser Val Leu Leu Thr Met Asn Met Leu Glu Lys Ile Gln
    20          25          30
Phe Gln Leu Glu His Leu Ser Lys Ser Glu Arg Lys Val Ala Glu Val
    35          40          45
Ile Leu Ala Ala Pro Ala Gln Ala Ile His Ser Ser Ile Ala Ala Leu
    50          55          60
Ala Gln Glu Ser Gly Val Ser Glu Pro Thr Val Asn Arg Phe Cys Arg
    65          70          75          80
Ser Leu Asp Thr Arg Gly Phe Pro Asp Phe Lys Leu His Leu Ala Gln
    85          90          95
Ser Leu Ala Asn Gly Thr Pro Tyr Val Asn Arg Asn Val Asp Glu Asp
    100          105          110
Asp Ser Val Asp Ala Tyr Thr Ala Lys Ile Phe Glu Ser Ala Met Ala
    115          120          125
Thr Leu Asp His Val Arg Gln Ser Leu Asp Met Ser Ser Val Asn Arg
    130          135          140
Ala Val Asp Leu Leu Thr Gln Ala Lys Arg Ile Ala Phe Phe Gly Leu
    145          150          155          160
Gly Ser Ser Ala Ala Val Ala His Asp Ala Met Asn Lys Phe Phe Arg
    165          170          175
Phe Asn Val Pro Val Ile Tyr Ser Asp Ile Val Leu Gln Arg Met
    180          185          190
Ser Cys Met Asn Cys Ser Glu Asp Asp Val Val Val Leu Ile Ser His
    195          200          205

```

Thr Gly Arg Thr Lys Ser Gln Val Glu Leu Ala Gln Leu Ala Arg Asp
 210 215 220
 Asn Asp Ala Met Val Ile Ala Leu Thr Thr Ala Gly Thr Pro Leu Ala
 225 230 235 240
 Arg Glu Ala Thr Leu Ala Ile Thr Leu Asp Val Pro Glu Asp Thr Asp
 245 250 255
 Met Tyr Met Pro Met Val Ser Arg Leu Ala Gln Leu Thr Val Ile Asp
 260 265 270
 Val Leu Ala Thr Gly Phe Thr Leu Arg Arg Gly Ala Lys Phe Arg Asp
 275 280 285
 Asn Leu Lys Arg Val Lys Glu Ala Leu Lys Glu Ser Arg Phe Asp Lys
 290 295 300
 Glu Leu Leu Ile Lys Ser Asp Val Pro
 305 310

<210> 6360

<211> 518

<212> PRT

<213> Enterobacter cloacae

<400> 6360

Arg Arg Ser Thr Ile Tyr Gly Ile Arg Ser Pro Arg Tyr Cys Leu Ala
 1 5 10 15
 Ile Asp Glu Gly Arg Phe Tyr Val His Ala Thr Pro Lys Leu Phe Gln
 20 25 30
 Ser Thr Glu Tyr Tyr Met Ser Arg Arg Leu Arg Arg Thr Lys Ile Val
 35 40 45
 Thr Thr Leu Gly Pro Ala Thr Asp Arg Asp Asn Asn Leu Glu Lys Ile
 50 55 60
 Ile Ala Ala Gly Ala Asn Val Val Arg Met Asn Phe Ser His Gly Thr
 65 70 75 80
 Pro Glu Asp His Lys Leu Arg Ala Asp Lys Val Arg Glu Ile Ala Ala
 85 90 95
 Lys Leu Gly Arg His Val Ala Ile Leu Gly Asp Leu Gln Gly Pro Lys
 100 105 110
 Ile Arg Val Ser Thr Phe Lys Glu Gly Lys Val Phe Leu Asn Ile Gly
 115 120 125
 Asp Lys Phe Leu Leu Asp Ala Asn Leu Ser Lys Gly Glu Gly Asp Lys
 130 135 140
 Glu Lys Val Gly Ile Asp Tyr Lys Gly Leu Pro Ala Asp Val Val Pro
 145 150 155 160
 Gly Asp Ile Leu Leu Leu Asp Asp Gly Arg Val Gln Leu Lys Val Leu
 165 170 175
 Glu Val Gln Gly Met Lys Val Phe Thr Glu Val Thr Val Gly Gly Pro
 180 185 190
 Leu Ser Asn Asn Lys Gly Ile Asn Lys Leu Gly Gly Gly Leu Ser Ala
 195 200 205
 Glu Ala Leu Thr Asp Lys Asp Lys Ala Asp Ile Val Thr Ala Ala Gln
 210 215 220
 Ile Gly Val Asp Tyr Leu Ala Val Ser Phe Pro Arg Cys Gly Glu Asp
 225 230 235 240
 Leu Asn Tyr Ala Arg Arg Leu Ala Arg Asp Ala Gly Cys Asp Ala Lys
 245 250 255
 Ile Val Ala Lys Val Glu Arg Ala Glu Ala Val Cys Asp Gln Asp Ala
 260 265 270
 Met Asp Asp Val Ile Leu Ala Ser Asp Val Val Met Val Ala Arg Gly
 275 280 285
 Asp Leu Gly Val Glu Ile Gly Asp Pro Glu Leu Val Gly Ile Gln Lys
 290 295 300
 Ala Leu Ile Arg Arg Ala Arg Gln Leu Asn Arg Ala Val Ile Thr Ala
 305 310 315 320

Thr Gln Met Met Glu Ser Met Ile Thr Asn Pro Met Pro Thr Arg Ala
 325 330 335
 Glu Val Met Asp Val Ala Asn Ala Val Leu Asp Gly Thr Asp Ala Val
 340 345 350
 Met Leu Ser Ala Glu Thr Ala Ala Gly Gln Tyr Pro Ala Glu Thr Val
 355 360 365
 Ala Ala Met Ala Arg Val Cys Leu Gly Ala Glu Lys Ile Pro Ser Ile
 370 375 380
 Asn Val Ser Lys His Arg Leu Asp Ile Gln Phe Asp Asn Val Glu Glu
 385 390 395 400
 Ala Ile Ala Met Ser Ala Met Tyr Ala Ala Asn His Leu Lys Gly Val
 405 410 415
 Thr Ala Ile Ile Thr Met Thr Glu Ser Gly Arg Thr Ala Leu Met Thr
 420 425 430
 Ser Arg Ile Ser Ser Gly Leu Pro Ile Phe Ala Met Ser Arg His Glu
 435 440 445
 Arg Thr Leu Asn Leu Thr Ala Leu Tyr Arg Gly Val Thr Pro Val Tyr
 450 455 460
 Phe Asp Ser Thr Asn Asp Gly Val Ala Ala Ala His Asp Ala Val Asn
 465 470 475 480
 Leu Leu Arg Asp Lys Gly Tyr Leu Val Ser Gly Asp Ile Val Ile Val
 485 490 495
 Thr Gln Gly Asp Val Met Ser Thr Ile Gly Ser Thr Asn Thr Thr Arg
 500 505 510
 Val Leu Thr Val Glu
 515

<210> 6361

<211> 80

<212> PRT

<213> Enterobacter cloacae

<400> 6361

Lys Glu Leu Ala Leu Lys Lys Ile Phe Val Ser Val Phe Ala Ala Ala
 1 5 10 15
 Val Ala Leu Ser Ala Leu Thr Gly Cys Thr Arg Thr Ser Tyr Ala Ile
 20 25 30
 His Thr Asn Asp Gly Arg Thr Ile Val Ser Asp Gly Lys Pro Thr Glu
 35 40 45
 Ser Asp Ser Gly Leu Leu Gly Tyr Lys Asp Ala Asn Gly Val Lys Gln
 50 55 60
 Gln Ile Asn Lys Ala Asp Val Lys Glu Val Ser Glu Ile Pro His
 65 70 75 80

<210> 6362

<211> 166

<212> PRT

<213> Enterobacter cloacae

<400> 6362

Arg Glu Pro Ser Met Asn Ser Leu Leu Thr Leu Ala Lys Asp Leu Glu
 1 5 10 15
 Gln Lys Ser Lys Val Gln Gln Gln Thr Thr Gly Glu Met Leu Lys Ala
 20 25 30
 Ala Phe Ser Glu His Asp Lys Ser Val Arg Thr Glu Leu Asn Glu Ser
 35 40 45
 Glu Lys Arg Ile Ser Ala Ala Ile His Asp His Asp Arg Met Leu Ser
 50 55 60
 Ser Ala Met Ser Gln Arg Thr Lys Gly Met Leu Arg Met Val Ser Gln
 65 70 75 80
 Thr Trp Leu Thr Ile Val Leu Val Ser Val Leu Leu Ile Ala Ser Ser

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<210> 6363
<211> 71
<212> PRT
<213> Enterobacter cloacae
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```
<210> 6364
<211> 112
<212> PRT
<213> Enterobacter cloacae
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```
<210> 6365
<211> 236
<212> PRT
<213> Enterobacter cloacae
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<400> 6365																
Val	Cys	Gln	Asn	Gly	Thr	Glu	Arg	Lys	Arg	Glu	Glu	Asn	Gln	Arg	Arg	
1				5					10					15		
His	Pro	Arg	Pro	Arg	Pro	Asp	Ala	Val	Leu	Ser	His	Glu	Pro	Ala	Tyr	
			20					25					30			
Glu	Arg	Asp	Ala	Ala	His	Gly	Gln	Pro	Asp	Val	Ala	Asp	His	Arg	Pro	

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<210> 6366
<211> 1091
<212> PRT
<213> Enterobacter cloacae
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<400> 6366																
Lys	Pro	Arg	Lys	Ala	Ala	Arg	Thr	Ser	Gly	Ala	Pro	Asp	Gln	Ser	Tyr	
1				5					10					15		
Thr	Gly	Lys	Leu	Leu	Lys	Lys	Pro	Lys	Phe	Thr	Gln	Trp	Ala	Leu	Ser	
			20					25					30			
Leu	Ala	Arg	Gly	Ser	Tyr	Ile	Gln	Lys	Arg	Gly	Ser	His	Met	Glu	Phe	
		35					40					45				
Phe	Tyr	Val	Val	Lys	Ala	Thr	Gln	Lys	Ser	Gly	Lys	Glu	Asp	Ala	Val	
	50					55					60					
Ile	Trp	Phe	Thr	Ala	Lys	Ser	Glu	Ala	Arg	Ala	Asn	Leu	Gln	Leu	Asp	
65					70					75					80	
Val	Glu	Leu	Glu	Asp	Ala	Gly	Ile	Glu	Thr	Gly	Arg	Gly	Lys	Asn	Tyr	
				85					90					95		
Ser	Lys	Pro	Ala	Arg	Thr	Asp	Phe	Pro	Val	Tyr	Asn	Asp	Leu	Pro	Glu	
			100					105					110			
Glu	Ser	Thr	Val	Asp	Tyr	Thr	Trp	Cys	Lys	Arg	Tyr	Glu	Leu	Gln	Asp	
		115					120					125				
Asp	Gly	Arg	Thr	Trp	Leu	Pro	Lys	Ala	Gly	Ala	Val	Ser	Thr	Gly	Ala	
	130					135					140					
Val	Asp	Asn	Thr	Ala	Ala	Pro	Glu	Pro	Thr	Val	Lys	Val	Glu	Ala	Thr	
145					150					155					160	
Val	Glu	Cys	Val	Pro	Leu	Glu	Asn	Arg	Thr	Pro	Ala	Val	Arg	Phe	Ala	
				165					170					175		
Val	His	Leu	Thr	Ser	Asp	Lys	Tyr	Gln	Ser	His	Ile	Thr	Lys	Glu	Gln	
			180					185					190			
Gln	Leu	Ala	Ala	Ser	Glu	Met	Ser	Leu	Asp	Glu	Gly	Asn	Thr	Tyr	Leu	
		195					200					205				
Gln	Asn	Leu	Leu	Gln	Ala	Lys	Asn	Asp	Ile	Pro	Glu	Val	Asp	Glu	Leu	
	210					215					220					
Ser	Leu	Asn	Ala	Glu	Trp	Lys	Leu	Val	Gln	Ala	Ile	Lys	Gln	Val	Phe	

225					230				235				240				
Ala	Pro	Asp	Glu	Glu	His	Glu	Val	Lys	Leu	Leu	Ala	Ala	Phe	Met	Ala		
				245					250				255				
Asp	Trp	Leu	Arg	Val	Asp	Ala	Gly	Asp	Arg	Asn	Glu	Leu	Val	Arg	Glu		
				260					265				270				
Trp	Arg	Ser	Gly	Lys	Leu	Thr	Leu	Leu	Lys	Ser	Glu	Ser	Thr	Ser	Glu		
				275					280				285				
Thr	Gly	Val	Thr	Thr	Asp	Gln	Asp	Pro	Glu	Pro	Asp	Asn	Gly	Ile	Gln		
				290					295				300				
Ile	Asp	Glu	Asn	Asp	Asp	Glu	Thr	Thr	Arg	Tyr	Pro	Val	Val	Arg	Met		
305					310					315				320			
Pro	Phe	Arg	Lys	Gln	Leu	Leu	Ala	Gln	Phe	Thr	Ala	Asn	Glu	Leu	Arg		
				325					330				335				
His	His	Leu	Thr	Arg	Glu	Glu	Tyr	Glu	Gly	Ile	Ser	Ala	Leu	Glu	Met		
				340					345				350				
Asp	Thr	Asp	Asn	Gly	Tyr	Val	Gln	Asn	Leu	Leu	Leu	Ala	Ala	Glu	Asn		
				355					360				365				
Cys	Glu	Glu	Val	Lys	Gly	Tyr	Asp	Thr	Lys	Asp	Leu	Trp	Arg	Tyr	Thr		
				370					375				380				
Glu	Ala	Ile	Arg	Lys	Val	Phe	Ser	Gln	Glu	Lys	Arg	His	Glu	Leu	Ala		
385					390					395				400			
Leu	Val	Leu	Arg	Phe	Thr	Arg	Ile	Trp	Ala	Ala	Thr	Asp	Tyr	Ile	Asp		
				405					410				415				
Arg	Gly	Ile	Leu	Val	Arg	Glu	Trp	Ala	Ala	Gly	Asn	Arg	Ile	Ser	Asn		
				420					425				430				
Ile	Gln	Arg	Thr	Asp	Ser	Gly	Thr	Asn	Ala	Asp	Gly	Ala	Tyr	Val	Thr		
				435					440				445				
Asp	Arg	Gly	Glu	Gly	Ala	His	His	Thr	Leu	Asp	Thr	Leu	Asp	Leu	Glu		
				450					455				460				
Ile	Ala	Cys	Ala	Leu	Leu	Pro	Met	Asp	Phe	His	His	Phe	Glu	Ile	Pro		
465					470					475				480			
Ser	Ser	Val	Leu	Arg	Ala	Lys	Glu	Ile	Val	Ala	Lys	Lys	Glu	Glu	Glu		
				485					490				495				
Pro	Trp	Lys	Ser	Trp	Ser	Ala	Ile	Leu	Arg	Asn	Gln	Pro	Gly	Val	Leu		
				500					505				510				
Ala	Val	Asn	Arg	Ala	Ala	Ile	Phe	Asn	Leu	Ile	Arg	Ile	Ala	Pro	Glu		
				515					520				525				
Asn	Ile	His	His	Thr	Pro	Ala	Ala	His	Leu	Glu	Phe	Val	Asn	Lys	Ala		
				530					535				540				
Met	Thr	Ala	Glu	Phe	Asn	Ser	Ala	Val	Glu	Val	Leu	Pro	Leu	Pro	Thr		
545					550					555				560			
Ala	Ala	Val	Glu	Thr	Glu	Ala	Pro	Val	Glu	Gln	Pro	Gln	Val	Glu	Asn		
				565					570				575				
Leu	Gly	Ser	Gly	Val	Phe	Ser	Ile	Asp	Gly	Leu	Met	Gly	Gly	Asn	Thr		
				580					585				590				
Glu	Pro	Val	Ala	Asp	Thr	Ser	Ser	Asn	Glu	Val	Glu	Lys	Thr	Glu	Asn		
				595					600				605				
Ala	Ala	Glu	Thr	Thr	Ser	Asp	Val	Gln	Met	Glu	Thr	Ala	Lys	Pro	Glu		
				610					615				620				
Lys	Asp	Glu	Asp	Val	Gly	Ser	Val	Pro	Pro	Ser	Glu	Ser	Thr	Asp	Ala		
625					630					635				640			
Ala	Asn	Ser	Gln	Thr	Asp	Ser	Val	Ala	Leu	Glu	Glu	Gln	Gln	Ala	Glu		
				645					650				655				
Pro	Val	Ile</															

Leu Val His Ala Leu Ala Leu Gln Pro Glu Asn Leu Glu Thr Glu Phe
 725 730 735
 Ser Val Glu Pro Gln Ile Pro Glu Gly Ala Phe Thr Thr Thr Ala Thr
 740 745 750
 Leu Arg Glu Phe Ile Asp Ala Tyr Asn Ala Ser Leu Pro Ala Leu Leu
 755 760 765
 Ser Ala Asp Glu Ile Lys Ala Leu Leu Glu Glu His Asn Ala Ser Leu
 770 775 780
 Pro Ala Gln Val Pro Leu Gly Ala Ser Gln Glu Glu Thr Ala Gln Ser
 785 790 795 800
 Tyr Met Ala Leu Pro Ala Glu Tyr Gln Arg Ile Glu Glu Gly Gln Lys
 805 810 815
 Gln Thr Ala Ala Met Lys Ala Cys Ile Lys Glu Tyr Asn Ala Thr
 820 825 830
 Leu Pro Val Pro Val Lys Thr Ser Gly Ser Arg Asp Ala Leu Leu Glu
 835 840 845
 Gln Leu Ala Ile Ile Asn Pro Asp Leu Val Ala Gln Glu Ala Gln Lys
 850 855 860
 Ser Thr Pro Leu Lys Val Ser Gly Ser Lys Ala Asp Met Ile Gln Ala
 865 870 875 880
 Val Lys Ser Val Lys Pro Asp Ala Ile Phe Ala Asp Glu Leu Leu Asp
 885 890 895
 Val Trp Arg Asp Asn Pro Asp Glu Lys Ile Leu Val Thr Arg Gln Gln
 900 905 910
 Leu Ala Thr Ala Arg Ala Ile Gln Ser Ala Leu Leu Ala His Pro Thr
 915 920 925
 Ala Gly Met Leu Leu Thr His Pro Ser Arg Ala Val Glu Val Ser Tyr
 930 935 940
 Phe Gly Phe Asp Asp Glu Thr Gly Leu Glu Val Arg Val Arg Pro Asp
 945 950 955 960
 Leu Glu Ile Glu Leu Asp Gly Val Arg Ile Gly Ala Asp Leu Lys Thr
 965 970 975
 Ile Ser Met Trp Asn Val Lys Gln Glu Ser Leu Arg Ala Arg Leu His
 980 985 990
 Arg Glu Ile Ile Asp Arg Asp Tyr His Leu Ser Ala Ala Met Tyr Cys
 995 1000 1005
 Glu Thr Ala Ala Leu Asp Gln Phe Phe Trp Ile Phe Val Asn Lys Asp
 1010 1015 1020
 Glu Asn Tyr His Trp Ile Ala Ile Ile Glu Ala Ser Thr Glu Leu Leu
 1025 1030 1035 1040
 Glu Leu Gly Met Leu Glu Tyr Arg Lys Thr Ile Arg Ala Ile Ala Thr
 1045 1050 1055
 Gly Phe Asp Thr Gly Glu Trp Pro Ala Pro Ile Thr Thr Asp Tyr Thr
 1060 1065 1070
 Asp Glu Leu Asn Asp Phe Asp Leu Arg Arg Leu Glu Ala Leu Arg Ala
 1075 1080 1085
 Gln Ala
 1090

<210> 6367

<211> 365

<212> PRT

<213> Enterobacter cloacae

<400> 6367

Gly Gly Phe Met His Asn Thr Asn Val Thr Val Thr Asp Gln Asn Thr
 1 5 10 15
 Val Ile Asn Ser Asn Val Ala Leu Phe Asp Ser Gln Tyr Leu Asn Ala
 20 25 30
 Ile Ser Thr Phe Ala Gln Ile Met Ala Gln Gly Thr Ala Thr Val Pro
 35 40 45

Lys His Leu Gln Gly Asn Gln Ala Asp Cys Met Ala Val Ala Met Gln
 50 55 60
 Ala Ala Gln Trp Gln Met Asn Pro Phe Ala Val Ala Gln Lys Thr His
 65 70 75 80
 Leu Ile Asn Gly Val Leu Gly Tyr Glu Ala Gln Leu Val Asn Ala Val
 85 90 95
 Ile Ser Arg Ser Gly Val Leu Ala Ser Arg Phe Glu Tyr Glu Trp Tyr
 100 105 110
 Gly Pro Trp Glu Lys Val Val Gly Lys Phe His Ile Arg Lys Gly Asp
 115 120 125
 Lys Gly Glu Tyr Arg Val Pro Gly Trp Thr Leu Ala Asp Glu Ala Gly
 130 135 140
 Ile Gly Ile Ile Ile Arg Ala Thr Leu Lys Gly Glu Asp Gln Pro Arg
 145 150 155 160
 Glu Leu Asp Leu Leu Leu Ala Gln Ala Arg Thr Arg Asn Ser Thr Leu
 165 170 175
 Trp Ala Asp Asp Pro Arg Gln Gln Leu Ala Tyr Leu Ala Val Lys Arg
 180 185 190
 Trp Ala Arg Leu Phe Cys Pro Asp Val Ile Leu Gly Val Tyr Thr Pro
 195 200 205
 Asp Glu Leu Asp Asp Arg Arg Glu Glu Arg Glu Val Asn Pro Ala Pro
 210 215 220
 Ala Gln His Val Ser Leu Ala Asp Ile Ser Gly Asp Asn Val Thr Thr
 225 230 235 240
 Thr Gln Thr Ala Gln Glu Ser Ala Gln Asn Ile Tyr Ala Leu Ala Asp
 245 250 255
 Asp Phe Arg Asp Arg Ile Glu Ala Ala Gln Asp Val Asp Ser Ala Lys
 260 265 270
 Ala Leu Arg Ala Asp Ile Glu Thr Val Lys Ala Thr Leu Gly Ser Ala
 275 280 285
 Leu Phe Thr Glu Leu Lys Asn Lys Ala Val Lys Arg Tyr Tyr Leu Val
 290 295 300
 Asp Ala Arg Asn Lys Val Glu Ala Ala Ile Asn Ser Leu Pro Ser Ser
 305 310 315 320
 Asp Glu Pro Asp Ala Ala Ala Arg Phe Ala Glu Val Glu Arg Val Leu
 325 330 335
 Ala Ala Ser Lys Arg His Leu Gly Asp Glu Leu His Gly Gln Phe Ser
 340 345 350
 Ile Thr Leu Ala Asp Met Lys Pro Glu Tyr Val Asp
 355 360 365

<210> 6368

<211> 72

<212> PRT

<213> Enterobacter cloacae

<400> 6368

Thr Met Ser Gln Val Ile Phe Asn Glu Glu Trp Val Val Gly Ala Arg
 1 5 10 15
 Leu Thr Glu Lys Thr Gly Leu Thr Glu Arg Gln Ile Glu Lys Tyr Arg
 20 25 30
 Gln Gly Cys Trp Val Glu Gly Val His Phe Lys Arg Val Ser Pro Ser
 35 40 45
 Gly Glu Lys Thr Leu Arg Gly Thr Thr Trp Tyr Asn Tyr Pro Arg Ile
 50 55 60
 Asn Gln Leu Ile Arg Asp Ala
 65 70

<210> 6369

<211> 70

<212> PRT

<213> Enterobacter cloacae

<400> 6369

Phe Phe Ala Ala Cys Ala Thr Tyr Trp Arg Lys Arg Gly Ile Gln Met
 1 5 10 15
 Cys Asn Ser Thr Lys Cys Gly Tyr Cys Gly Lys Thr Val Lys Pro Gly
 20 25 30
 Glu Val Val Lys Ser Thr Leu Leu Tyr Arg Asn Gly Ala Gln Leu Ala
 35 40 45
 Arg Lys Glu Lys Glu Tyr Cys Ser Glu Arg Cys Ala Ser Tyr Asp Gln
 50 55 60
 Met Ala His Glu Ala
 65 70

<210> 6370

<211> 417

<212> PRT

<213> Enterobacter cloacae

<400> 6370

Gly Met Arg Lys Met Ala Ala Leu Pro Thr Gly Val Glu Ile Arg Asn
 1 5 10 15
 Asn Lys Ile Cys Ile Trp Phe Met Tyr Arg Gly Lys Arg Cys Arg Glu
 20 25 30
 Ile Leu Lys Gly Trp Ile Asn Ser Pro Ala Asn Ile Lys Lys Ala Gly
 35 40 45
 Asn Leu Arg Ala Val Ile Val Ser Glu Ile Asn Leu Gly Glu Phe Asp
 50 55 60
 Tyr Asn Gln Arg Phe Pro Ser Ser Ser Arg Ala Lys Lys Thr Val Thr
 65 70 75 80
 Thr Val Ser Val Gln Thr Phe Ser Glu Leu Cys Glu Leu Trp Thr Ser
 85 90 95
 Ile Lys Glu Thr Glu Ile Ser Ala Asn Thr Met Arg Lys Thr Arg Leu
 100 105 110
 Gln Leu Gly Thr Leu Met His Ile Ile Asn Gly Asp Thr Pro Val Ser
 115 120 125
 Ala Ile Arg His Ser Asp Ile Leu Lys Tyr Arg Lys Glu Leu Leu Asn
 130 135 140
 Gly Glu Thr Leu Tyr Leu Ala Asn Pro Arg Ser Asn Lys Gln Gly Arg
 145 150 155 160
 Thr Val Arg Thr Val Asn Asn Tyr Ile Ser Leu Leu Cys Ser Leu Leu
 165 170 175
 Arg Phe Ala His Lys Ser Gly Phe Ile Ser Gly Lys Pro Phe Glu Gly
 180 185 190
 Ile Lys Lys Leu His Lys Gly Lys Val Lys Pro Asp Pro Leu Thr Lys
 195 200 205
 Gln Glu Phe Ser Leu Leu Ala Glu Ser Glu Arg Gly Gln Ser Leu Asn
 210 215 220
 Met Trp Thr Phe Ala Val Tyr Thr Gly Val Arg His Gly Glu Leu Ala
 225 230 235 240
 Ala Leu Ala Trp Glu Asp Ile Asp Trp Glu Lys Gly Thr Ala His Ile
 245 250 255
 Lys Arg Asn Leu Asn Ala Leu Gly Met Phe Gly Pro Pro Lys Thr Glu
 260 265 270
 Ala Gly Asn Arg Val Ile Thr Leu Leu Glu Pro Ala Leu Glu Ala Leu
 275 280 285
 Lys Ala Gln Arg Lys Leu Thr Ala Leu Gln Pro Lys Thr Glu Ile Val
 290 295 300
 Phe Asn His Arg Glu Tyr Gly Ala Val Glu Asn Gln Ser Leu Arg Phe
 305 310 315 320
 Val Phe Ile Pro Arg Met Arg Lys Gly Glu Gln Lys Ala Tyr Tyr Ser

				325					330					335			
Leu	Ser	Ser	Ile	Gly	Ala	Arg	Phe	Asn	Ala	Ala	Val	Lys	Arg	Ala	Gly		
			340					345					350				
Ile	Arg	Arg	Arg	Asn	Pro	Tyr	His	Thr	Arg	His	Thr	Phe	Ala	Cys	Trp		
			355				360					365					
Leu	Leu	Ser	Ala	Gly	Ala	Asn	Pro	Ser	Phe	Ile	Ala	Ser	Gln	Met	Gly		
			370			375					380						
His	Glu	Asn	Ala	Gln	Met	Val	Tyr	Glu	Val	Tyr	Gly	Ala	Trp	Ile	Glu		
385					390					395					400		
Glu	Met	Asn	Gly	Glu	Gln	Val	Leu	Met	Leu	Asn	Asn	Lys	Leu	Ala	Arg		
				405					410					415			

<210> 6371

<211> 84

<212> PRT

<213> Enterobacter cloacae

<400> 6371

Ser	His	Gly	Ala	Leu	Ala	Gly	Thr	Gln	Val	Ser	Ala	Leu	Ile	Thr	Leu		
1			5					10					15				
Thr	Pro	Leu	Phe	Thr	Leu	Leu	Phe	Ser	Asp	Leu	Leu	Ser	Met	Ala	Trp		
			20				25					30					
Pro	Asp	Val	Phe	Val	Lys	Pro	Met	Leu	Asn	Leu	Leu	Gly	Tyr	Leu	Gly		
		35				40					45						
Ala	Phe	Val	Met	Val	Ala	Gly	Ala	Met	Tyr	Ser	Ala	Ile	Gly	His	Arg		
	50				55					60							
Leu	Trp	Gly	Arg	Trp	Arg	Lys	Asn	Glu	Ala	Val	Val	Ile	Val	Pro	Arg		
65					70				75						80		
Ser	Gly	Glu															

<210> 6372

<211> 397

<212> PRT

<213> Enterobacter cloacae

<400> 6372

Val	Thr	Glu	Ser	Lys	Met	Lys	Phe	Val	Asp	Glu	Ala	Thr	Ile	Leu	Val		
1			5					10					15				
Val	Ala	Gly	Asp	Gly	Gly	Asn	Gly	Cys	Val	Ser	Phe	Arg	Arg	Glu	Lys		
		20				25					30						
Tyr	Ile	Pro	Arg	Gly	Gly	Pro	Asp	Gly	Gly	Asp	Gly	Gly	Asp	Gly	Gly		
		35				40					45						
Asp	Val	Trp	Leu	Glu	Ala	Asp	Glu	Asn	Leu	Asn	Thr	Leu	Ile	Asp	Tyr		
	50				55					60							
Arg	Phe	Glu	Lys	Ser	Phe	Arg	Ala	Glu	Arg	Gly	Gln	Asn	Gly	Gln	Ser		
65					70				75						80		
Arg	Asp	Cys	Thr	Gly	Lys	Arg	Gly	Lys	Asp	Val	Thr	Ile	Lys	Val	Pro		
			85					90					95				
Val	Gly	Thr	Arg	Val	Ile	Asp	Gln	Gly	Thr	Gly	Glu	Thr	Met	Gly	Asp		
		100					105					110					
Met	Thr	Lys	His	Gly	Gln	Arg	Leu	Met	Val	Ala	Lys	Gly	Gly	Trp	His		
		115				120					125						
Gly	Leu	Gly	Asn	Ser	Arg	Phe	Lys	Ser	Ser	Val	Asn	Arg	Thr	Pro	Arg		
	130				135					140							
Gln	Lys	Thr	Met	Gly	Thr	Pro	Gly	Asp	Lys	Arg	Asp	Leu	Gln	Leu	Glu		
145					150				155						160		
Leu	Met	Leu	Leu	Ala	Asp	Val	Gly	Met	Leu	Gly	Met	Pro	Asn	Ala	Gly		
				165					170					175			

Lys Ser Thr Phe Ile Arg Ala Val Ser Ala Ala Lys Pro Lys Val Ala
 180 185 190
 Asp Tyr Pro Phe Thr Thr Leu Val Pro Ser Leu Gly Val Val Arg Met
 195 200 205
 Asp Asn Glu Lys Ser Phe Val Ala Asp Ile Pro Gly Leu Ile Glu
 210 215 220
 Gly Ala Ala Glu Gly Ala Gly Leu Gly Ile Arg Phe Leu Lys His Leu
 225 230 235 240
 Glu Arg Cys Arg Val Leu Leu His Leu Ile Asp Ile Asp Pro Ile Asp
 245 250 255
 Gly Ser Asp Pro Val Glu Asn Ala Arg Ile Ile Ile Gly Glu Leu Glu
 260 265 270
 Lys Tyr Ser Glu Lys Leu Ala Gln Lys Pro Arg Trp Leu Val Phe Asn
 275 280 285
 Lys Ile Asp Leu Met Asp Lys Ala Glu Ala Glu Ala Lys Ala Lys Ala
 290 295 300
 Ile Ala Glu Ala Met Gly Trp Glu Asp Lys Tyr Tyr Leu Ile Ser Ala
 305 310 315 320
 Ala Ser Gln Val Gly Val Lys Asp Leu Cys Trp Asp Val Met Thr Phe
 325 330 335
 Ile Ile Glu Asn Pro Val Val Gln Ala Glu Glu Ala Lys Gln Pro Glu
 340 345 350
 Lys Val Glu Phe Met Trp Asp Asp Tyr His Arg Gln Gln Leu Glu Glu
 355 360 365
 Leu Glu Ala Glu Glu Asp Asp Glu Asp Trp Asp Asp Trp Asp Glu
 370 375 380
 Asp Asp Glu Glu Gly Val Glu Phe Ile Tyr Lys His
 385 390 395

<210> 6373

<211> 122

<212> PRT

<213> Enterobacter cloacae

<400> 6373

Ile Phe Ile Ala His Ser Glu Ser Tyr Glu Asp Val Arg Gly Ser Gly
 1 5 10 15
 Val Tyr Met Tyr Ala Val Phe Gln Ser Gly Gly Lys Gln His Arg Val
 20 25 30
 Ser Glu Gly Gln Thr Val Arg Leu Glu Lys Leu Asp Ile Ala Thr Gly
 35 40 45
 Glu Ser Val Glu Phe Ala Glu Val Leu Met Ile Ala Asn Gly Glu Glu
 50 55 60
 Val Lys Ile Gly Val Pro Phe Val Asp Gly Gly Val Ile Lys Ala Glu
 65 70 75 80
 Val Val Ala His Gly Arg Gly Glu Lys Val Lys Ile Val Lys Phe Arg
 85 90 95
 Arg Arg Lys His Tyr Arg Lys Gln Gln Gly His Arg Gln Trp Phe Thr
 100 105 110
 Asp Val Lys Ile Thr Gly Ile Ser Ala
 115 120

<210> 6374

<211> 281

<212> PRT

<213> Enterobacter cloacae

<400> 6374

Val Arg Phe Ser Arg Ser Gly Asn Gly Leu Lys Pro Arg Asn Val Leu
 1 5 10 15
 Arg Gly Phe Leu His Trp Lys Pro Gly Lys Phe Ser Val Gly Lys Thr

```
<210> 6375
<211> 160
<212> PRT
<213> Enterobacter cloacae
```

<400> 6375															
Gln	Met	Gln	Ala	Ile	Pro	Met	Thr	Leu	Arg	Gly	Ala	Glu	Lys	Leu	Arg
1				5					10					15	
Glu	Glu	Leu	Asp	Phe	Leu	Lys	Ser	Val	Arg	Arg	Pro	Glu	Ile	Ile	Ala
			20					25					30		
Ala	Ile	Ala	Glu	Ala	Arg	Glu	His	Gly	Asp	Leu	Lys	Glu	Asn	Ala	Glu
		35					40					45			
Tyr	His	Ala	Ala	Arg	Glu	Gln	Gln	Gly	Phe	Cys	Glu	Gly	Arg	Ile	Lys
	50					55					60				
Asp	Ile	Glu	Ala	Lys	Leu	Ser	Asn	Ala	Gln	Val	Ile	Asp	Ile	Thr	Lys
65				70						75				80	
Met	Pro	Asn	Asn	Gly	Arg	Val	Ile	Phe	Gly	Ser	Thr	Val	Thr	Val	Leu
				85					90					95	
Asn	Leu	Asp	Asn	Asp	Glu	Glu	Gln	Thr	Tyr	Arg	Ile	Val	Gly	Asp	Asp
			100					105					110		
Glu	Ala	Asp	Phe	Lys	Gln	Asn	Leu	Ile	Ser	Val	Asn	Ser	Pro	Ile	Ala
		115					120					125			
Arg	Gly	Leu	Ile	Gly	Lys	Glu	Gln	Asp	Asp	Val	Val	Thr	Ile	Arg	Thr
	130					135					140				
Pro	Gly	Gly	Glu	Val	Glu	Tyr	Glu	Ile	Ile	Lys	Val	Glu	Tyr	Leu	
145					150					155					160

<210> 6376
 <211> 86
 <212> PRT
 <213> Enterobacter cloacae

<400> 6376

```
Met Ala His Lys Lys Ala Gly Gly Ser Thr Arg Asn Gly Arg Asp Ser
1          5          10          15
Glu Ala Lys Arg Leu Gly Val Lys Arg Phe Gly Gly Glu Ser Val Leu
          20          25          30
Ala Gly Ser Ile Ile Val Arg Gln Arg Gly Thr Lys Phe His Ala Gly
          35          40          45
Thr Asn Val Gly Cys Gly Arg Asp His Thr Leu Phe Ala Lys Ala Asp
          50          55          60
Gly Lys Val Lys Phe Glu Val Lys Gly Pro Asn Asn Arg Lys Tyr Ile
65          70          75          80
Ser Ile Val Ala Glu
          85
```

<210> 6377
 <211> 365
 <212> PRT
 <213> Enterobacter cloacae

<400> 6377

```
Arg Ser His Gln Asn Arg Thr Arg Arg Gly Leu Pro Ser Gly Glu Pro
1          5          10          15
Glu Met Asn Ser Met Arg Arg Arg Leu Met Val Leu Leu Ala Val Ile
          20          25          30
Leu Leu Phe Phe Gln Leu Ile Ser Val Val Trp Leu Trp His Glu Ser
          35          40          45
Arg Glu Gln Ile Gly Phe Leu Val Asn Glu Thr Leu Ser Ala Lys Ala
          50          55          60
Arg Asn Asn His Val Glu Lys Glu Ile Arg Glu Ala Ile Ala Ser Leu
65          70          75          80
Leu Val Pro Ser Leu Val Met Val Gly Phe Thr Leu Leu Phe Ser Phe
          85          90          95
Trp Ala Val Thr Trp Ile Thr Arg Pro Leu Asn Lys Leu Arg Ala Ser
          100          105          110
Leu Ala Asn Arg Ser Ala Asp Asn Leu Thr Pro Leu Pro Met Tyr Ser
          115          120          125
Asp Met Glu Glu Ile Gly Ala Val Thr Thr Ser Leu Asn Gln Leu Leu
          130          135          140
Ala Arg Leu Asp His Thr Ile Gln Gln Glu Arg Leu Phe Thr Ala Asp
145          150          155          160
Ala Ala His Glu Leu Arg Thr Pro Leu Ala Gly Ile Arg Leu His Leu
          165          170          175
Glu Leu Met Ala Gln Ser Gly Ser Pro Gln Ala Thr Pro Leu Ile Asn
          180          185          190
Arg Ile Asp Gln Leu Met His Thr Val Glu Gln Leu Leu Met Leu Ala
          195          200          205
Arg Ala Gly Gln Ala Met Ala Ser Gly His Tyr Asp Thr Val Asn Trp
          210          215          220
Thr Glu Ser Ile Ile Ala Pro Leu Ser Leu Glu His Glu Ala Lys Glu
225          230          235          240
His Thr Val Leu Trp Pro Ala His Ser Thr Leu Thr Val Gln Gly Asp
          245          250          255
Ala Val Leu Leu Arg Leu Met Leu Arg Asn Leu Leu Glu Asn Ala Ala
          260          265          270
Arg Tyr Ser Pro Ala Gly Thr Ile Ile Glu Val Ala Leu Thr Ala Thr
          275          280          285
```

Glu Gly Gly Thr Arg Val Ser Val Thr Asp Gln Gly Pro Gly Ile Asp
 290 295 300
 Glu Ala His Arg Gln Ser Ile Thr Glu Pro Phe Arg Arg Leu Asp Gln
 305 310 315 320
 Arg Tyr Gly Gly Ser Gly Leu Gly Leu Ser Ile Val Gln Arg Ile Val
 325 330 335
 Gln Leu His His Gly His Leu Thr Leu Glu Asn Gly Ala Glu Gly Gly
 340 345 350
 Leu Ile Ala Ser Cys Trp Leu Pro Thr Lys Ile Gly
 355 360 365

<210> 6378

<211> 125

<212> PRT

<213> Enterobacter cloacae

<400> 6378

Tyr Ile Asn Arg Gly Ser Cys Gln Pro Gln Val Val Lys Thr Met Asn
 1 5 10 15
 Arg Phe Gln Ser Gln Arg Lys Gln Lys Tyr Thr Met Asn Leu Ser Thr
 20 25 30
 Lys Gln Lys Gln His Leu Lys Gly Leu Ala His Pro Leu Lys Pro Val
 35 40 45
 Val Met Leu Gly Asn Asn Gly Leu Thr Glu Gly Val Leu Ala Glu Ile
 50 55 60
 Glu Gln Ala Leu Glu His His Glu Leu Ile Lys Val Lys Ile Ala Ser
 65 70 75 80
 Glu Asp Arg Asp Thr Lys Asn Leu Ile Val Glu Ala Ile Val Arg Glu
 85 90 95
 Thr Gly Ala Cys Asn Val Gln Val Ile Gly Lys Thr Leu Val Leu Tyr
 100 105 110
 Arg Pro Ser Lys Glu Arg Lys Ile Ser Leu Pro Arg
 115 120 125

<210> 6379

<211> 223

<212> PRT

<213> Enterobacter cloacae

<400> 6379

Leu Ala Met Lys Leu Leu Ile Val Glu Asp Asp Leu Leu Leu Gln Glu
 1 5 10 15
 Gly Leu Ala Leu Ala Leu Gly Asn Glu Gly Tyr Ala Leu Asp Cys Ala
 20 25 30
 Ala Thr Ala Ala Glu Ala Asp Ala Leu Ile Gln Ser Gly Glu Tyr Ser
 35 40 45
 Leu Val Ile Leu Asp Leu Gly Leu Pro Asp Lys Asp Gly Ala Thr Leu
 50 55 60
 Leu Cys Gln Trp Arg Arg Arg Gly Val Glu Asn Pro Val Leu Ile Leu
 65 70 75 80
 Thr Ala Arg Asp Ala Ile Glu Asp Arg Ile Asn Gly Leu Asp Ser Gly
 85 90 95
 Ala Asp Asp Tyr Leu Val Lys Pro Phe Ala Leu Ala Glu Leu Gln Ala
 100 105 110
 Arg Val Arg Ala Leu Ile Arg Arg Tyr Gln Gly His Ser Asp Asn Leu
 115 120 125
 Leu Thr Asp Gly Asp Ile Thr Leu Asn Leu Gln Thr Gln Gln Val Leu
 130 135 140
 Arg Gln Ser Gln Pro Val Glu Val Thr Pro Lys Glu Phe Ala Leu Leu
 145 150 155 160
 Thr Arg Leu Ile Met Arg Ser Gly Gln Thr Val His Arg Glu Thr Leu

Gln	Gln	Asp	Ile	165	Tyr	Ser	Trp	Gln	Asp	170	Asp	Pro	Gly	Ser	Asn	175	Thr	Leu
			180						185						190			
Glu	Val	His	Ile	His	Asn	Leu	Arg	Arg	Lys	Leu	Gly	Lys	Asp	Arg	Ile			
		195					200						205					
Lys	Thr	Val	Arg	Gly	Val	Gly	Tyr	Arg	Leu	Glu	Ser	Gln	Lys					
	210						215					220						

<210> 6380

<211> 481

<212> PRT

<213> Enterobacter cloacae

<400> 6380

Arg	Glu	Ile	Met	Arg	Phe	Ser	Ser	Phe	Ile	Ile	Gly	Leu	Thr	Thr	Ser			
1				5				10						15				
Ile	Thr	Tyr	Thr	Val	Gln	Ala	Ala	Asn	Val	Asp	Glu	Tyr	Ile	Asn	Gln			
			20					25					30					
Leu	Pro	Ala	Gly	Ala	Asn	Leu	Ala	Leu	Met	Val	Gln	Lys	Val	Gly	Ala			
		35					40					45						
Gln	Ala	Pro	Glu	Ile	Asp	Tyr	His	Ser	Gln	Gln	Met	Ala	Leu	Pro	Ala			
	50					55					60							
Ser	Thr	Gln	Lys	Val	Ile	Thr	Ala	Leu	Ala	Ala	Leu	Leu	Gln	Leu	Gly			
65				70					75						80			
Pro	Asp	Phe	Arg	Phe	Thr	Thr	Thr	Leu	Glu	Thr	Arg	Gly	Asn	Val	Glu			
				85				90						95				
Gly	Gly	Glu	Leu	Lys	Gly	Asp	Leu	Ile	Ala	Arg	Phe	Gly	Gly	Asp	Pro			
			100				105						110					
Thr	Phe	Lys	Arg	Gln	Asp	Asp	Arg	Asn	Met	Val	Ala	Val	Leu	Lys	Lys			
		115					120					125						
Ser	Gly	Val	Thr	Lys	Ile	Asp	Gly	Asn	Val	Leu	Ile	Asp	Thr	Ser	Ile			
	130					135					140							
Phe	Ala	Ser	His	Asp	Lys	Ala	Pro	Gly	Trp	Pro	Trp	Asn	Asp	Met	Thr			
145				150					155					160				
Gln	Cys	Phe	Ser	Ala	Pro	Pro	Ala	Ala	Ala	Ile	Val	Asp	Arg	Asn	Cys			
				165				170						175				
Phe	Ser	Val	Ser	Leu	Tyr	Ser	Ala	Pro	Lys	Pro	Asn	Asp	Leu	Ala	Phe			
			180				185						190					
Ile	Arg	Val	Ala	Ser	Tyr	Tyr	Pro	Val	Thr	Met	Phe	Ser	Gln	Val	Arg			
		195					200						205					
Thr	Leu	Ala	Lys	Gly	Ser	Pro	Glu	Ala	Gln	Tyr	Cys	Glu	Leu	Asp	Val			
	210					215					220							
Val	Pro	Gly	Asp	Leu	Asn	Arg	Tyr	Thr	Leu	Thr	Gly	Cys	Leu	Thr	Gln			
225				230					235					240				
Arg	Ala	Asp	Pro	Leu	Pro	Leu	Ala	Phe	Ala	Ile	Gln	Asp	Gly	Ala	Gly			
				245				250						255				
Tyr	Ala	Gly	Ala	Ile	Phe	Lys	Asp	Glu	Leu	Lys	Gln	Ala	Gly	Ile	Thr			
			260				265						270					
Tyr	Thr	Gly	Thr	Leu	Leu	Arg	Gln	Thr	Gln	Val	Asn	Glu	Pro	Gly	Thr			
		275					280					285						
Val	Ile	Ala	Ser	Lys	Gln	Ser	Ala	Pro	Leu	His	Asp	Leu	Leu	Lys	Ile			
	290					295					300							
Met	Leu	Lys	Lys	Ser	Asp	Asn	Met	Ile	Ala	Asp	Thr	Val	Phe	Arg	Met			
305				310					315					320				
Ile	Gly	His	Ala	Arg	Phe	Gly	Val	Pro	Gly	Thr	Trp	Arg	Ala	Gly	Ser			
				325				330						335				
Asp	Ala	Val	Arg	Gln	Ile	Leu	Arg	Gln	Gln	Ala	Gly	Ile	Asp	Leu	Gly			
			340				345						350					
Asn	Thr	Ile	Ala	Val	Asp	Gly	Ser	Gly	Leu	Ser	Arg	His	Asn	Leu	Ile			
		355				360						365						
Ser	Pro	Ala	Thr	Met	Met	Gln	Val	Leu	Gln	Tyr	Ile	Ala	Gln	His	Asp			

370	375	380
Ala Glu Leu Asn Phe Ile Thr Met Leu Pro Leu Ala Gly His Asp Gly		
385	390	395
Ser Leu Gln Tyr Arg Ala Gly Leu His Ala Ala Gly Val Asp Gly Lys		400
	405	410
Val Ser Ala Lys Thr Gly Ser Leu Gln Gly Val Tyr Asn Leu Ala Gly		415
	420	425
Phe Ile Thr Thr Ala Ser Gly Gln Arg Met Ala Phe Val Gln Tyr Leu		430
	435	440
Ser Gly Tyr Ala Val Glu Pro Ala Asp Gln Arg Asn Arg Arg Ile Pro		445
	450	455
Leu Val Arg Phe Glu Ser Arg Leu Tyr Lys Asp Ile Tyr Gln Asn Asn		460
465	470	475
		480

<210> 6381

<211> 232

<212> PRT

<213> Enterobacter cloacae

<400> 6381

Cys Met Val Ser Gly Trp Pro Ser Glu Glu Cys Leu Met Lys Tyr Ser		
1	5	10
Leu Ile Tyr Ala Asp Pro Ala Trp Leu Tyr Asp Asn Lys Ala Ser Asn		15
	20	25
Gly Ala Ala Glu Asp His Tyr Asp Thr Met Lys Leu Ile Asp Met Lys		30
	35	40
Arg Leu Pro Val Trp Asp Leu Ala Ala Asp Asp Ala Val Leu Ala Met		45
	50	55
Trp Phe Thr Gly Thr His Thr Arg Glu Ala Ile Glu Leu Ala Glu Ala		60
	65	70
Trp Gly Phe Lys Val Arg Thr Met Lys Gly Phe Thr Trp Val Lys Phe		75
	85	90
Asn Pro Leu Ala Glu Lys His Ile Asn Lys Ala Leu Gln Ala Gly Arg		95
	100	105
Val Glu Asp Phe Tyr Asp Phe Leu Asp Leu Leu Asn Ala Gln Thr Arg		110
	115	120
Met Asn Gly Gly Asn Tyr Thr Arg Ala Asn Thr Glu Asp Leu Leu Ile		125
	130	135
Ala Thr Arg Gly Asn Gly Leu Glu Arg Lys Cys Ala Ser Ile Lys Gln		140
	145	150
Val Ile Tyr Ser Pro Leu Gly Glu His Ser Arg Lys Pro Ala Glu Ala		155
	165	170
Arg Phe Arg Leu Glu Lys Leu Tyr Gly Asp Val Pro Arg Ile Glu Leu		175
	180	185
Phe Ser Arg Cys Gly Ala Pro Gly Trp Asp His Trp Gly Asn Gln Ser		190
	195	200
Glu Leu Pro Ala Val Glu Leu Ile Pro Ala Val Ala Val Pro Met Lys		205
	210	215
Lys Gln Gln Glu Arg Ala Ala		220
225	230	

<210> 6382

<211> 256

<212> PRT

<213> Enterobacter cloacae

<400> 6382

Ser Glu Trp Arg Lys Gly Arg Asp Ile Asp Asn Gln Ala Ser Thr Ser		
1	5	10
		15

Asn	Gly	Gly	Asn	Gly	Val	Arg	Ala	Ile	Leu	Thr	Pro	Glu	Ile	Ala	Pro
			20					25					30		
Met	Ser	Gly	Val	Val	Leu	Phe	Arg	Pro	Gly	Asn	Glu	Leu	Leu	Trp	Leu
		35					40					45			
Phe	Arg	Gln	Gly	Arg	Val	Val	Ile	Glu	Gln	Pro	Ser	Glu	Ala	Ile	Gln
	50					55					60				
His	Leu	Pro	Ser	Gly	Leu	Ile	Pro	Glu	Ala	His	Gln	Pro	Leu	Thr	Asp
65					70					75					80
Asp	Ala	Asn	Met	Lys	Ala	Ile	Phe	Val	Asn	Glu	Arg	Val	Ile	Gln	Arg
				85					90					95	
Ala	Gly	Gly	Leu	Ser	Ser	Leu	Asp	Ala	Trp	Leu	Glu	Arg	Lys	Phe	Glu
			100					105					110		
Cys	Gln	Trp	Pro	His	Thr	Asp	Trp	His	Ala	Thr	Asp	Phe	Thr	Val	Met
		115					120					125			
Arg	His	Ala	Pro	Gly	Ser	Ile	Arg	Leu	Cys	Trp	Ser	Cys	Asp	Asn	His
	130					135					140				
Leu	Arg	Glu	Gln	Thr	Thr	Glu	Arg	Leu	Ala	Gly	Ile	Ala	Met	Gln	Asn
145					150					155					160
Leu	Val	Lys	Trp	Leu	Leu	Glu	Arg	Val	Asn	Ile	Asp	Leu	Gly	Phe	Ser
				165					170					175	
Pro	Glu	His	Thr	Leu	Ser	Leu	Pro	Glu	Phe	Cys	Trp	Trp	Met	Val	Arg
			180					185					190		
Asn	Asp	Leu	Ala	Asp	Leu	Val	Pro	Glu	Ser	Val	Ala	Ser	Lys	Ala	Leu
		195					200					205			
Arg	Ile	Lys	Pro	Glu	Gln	His	Ser	Ser	Val	Met	Arg	Glu	Ser	Asp	Ile
	210					215					220				
Val	Pro	Ser	Leu	Pro	Ala	Thr	Gln	Ile	Phe	Gln	Glu	Lys	Ala	Lys	Lys
225					230					235					240
Ile	Val	Ala	Val	Lys	Val	Asp	Pro	Glu	Thr	Pro	Asp	Leu	Ser	Cys	
				245					250					255	

<210> 6383

<211> 177

<212> PRT

<213> Enterobacter cloacae

<400> 6383

Arg	Cys	Ser	Asn	Thr	Val	Thr	Gln	Gln	Ser	Ala	Phe	Arg	Asn	Tyr	Gln
1				5					10					15	
Arg	Lys	Asn	Asn	Met	Val	Glu	Pro	Ser	Leu	Lys	Glu	Val	Val	Lys	Ala
			20					25					30		
Met	Cys	Lys	Ala	Tyr	Pro	Gly	Gly	Arg	Glu	Ala	Met	Ala	Gly	Ala	Leu
		35					40				45				
Gly	Met	Ser	Val	Thr	Gln	Phe	Asn	Asn	Asn	Leu	Tyr	Glu	Lys	Asn	Gly
	50					55					60				
Cys	Arg	Phe	Phe	Glu	Val	Asn	Glu	Leu	Glu	Ala	Met	Glu	Asp	Ile	Ser
65					70					75					80
Asn	Thr	Ser	Leu	Leu	Ala	Asp	Tyr	Phe	Ala	Arg	Arg	Arg	Gly	Ala	Leu
				85					90					95	
Leu	Val	Asp	Val	Pro	Gln	Leu	Glu	Asp	Leu	Asp	Arg	Val	Asp	Leu	Phe
			100					105					110		
Asp	Arg	Ala	Met	Arg	Thr	Ser	Ala	Ala	Arg	Gly	Arg	Val	Asp	Thr	Val
		115					120					125			
Ile	Gln	Arg	Ala	Leu	Glu	Asp	Gly	Val	Ile	Glu	Arg	His	Glu	Ala	Glu
	130					135					140				
Glu	Ile	Asn	Glu	Tyr	His	Arg	Arg	His	Leu	Ala	Ala	Arg	Glu	Glu	Glu
145					150					155					160
Ile	Arg	Ala	Ile	Val	Ala	Leu	Phe	Ser	Arg	Lys	Lys	Ser	Gln	Lys	Lys
				165					170					175	

<210> 6384
 <211> 190
 <212> PRT
 <213> Enterobacter cloacae

<400> 6384

```

Gly Trp Asn Leu Gln Ile Gln Leu Gln Glu His Arg Val Gln Gln Ser
1          5          10          15
Pro Gly Gly Leu Gln Arg Ser Glu Leu Met Ser Leu Leu Lys Asp Ile
20          25          30
Gln Ile Phe Ile Ala Ala Asn Pro Gly Leu Thr Asn Lys Glu Ile Ala
35          40          45
Ala Ser Met Pro Gln Tyr Asp Val His Ala Val Gln Arg Gly Val Cys
50          55          60
His Leu Val Lys Leu Asn Arg Ala Thr Arg Gln His Asn Gly Lys Cys
65          70          75          80
Tyr Gln Tyr Phe Ala Lys Ala Pro Gly Gly Glu Val Gly Glu Gly Arg
85          90          95
Ser Ala Leu Lys Ile Asn Arg Ala Asp Lys Pro Ala Val Pro Glu Gln
100          105          110
Glu Glu Gly Leu Asn Pro Ala Val Thr Thr Met Met Asp Lys Ala Gln
115          120          125
Gly Leu Phe Glu Lys Gly Leu Tyr Gln Arg Ala Ala Thr Ile Leu Met
130          135          140
Asp Ala Phe Asn Arg Ser Lys Asn Glu Glu Gln Arg Met Lys Ile Leu
145          150          155          160
Ile Glu Arg Gln Arg Cys Leu Ser Met Ala Pro Lys Val Lys Ala Pro
165          170          175
Ser Asp Ala Trp Cys Leu Ala Gly Arg Ala Arg Asn Val
180          185          190

```

<210> 6385
 <211> 139
 <212> PRT
 <213> Enterobacter cloacae

<400> 6385

```

Met Ala Glu Lys Thr Gly Ser Asp Val Met Lys Leu Val Leu Pro Phe
1          5          10          15
Pro Pro Ser Val Asn Thr Tyr Trp Arg Ala Pro Asn Lys Gly Pro Leu
20          25          30
Lys Gly Arg His Leu Ile Ser Ala Lys Gly Arg Ala Tyr Gln Ser Ala
35          40          45
Ala Cys Val Ala Ile Val Glu Gln Leu Arg Phe Leu Pro Lys Pro Ser
50          55          60
Thr Ala Pro Ala Ala Val Glu Ile Met Leu Tyr Pro Pro Asp Glu Arg
65          70          75          80
Arg Arg Asp Ile Asp Asn Tyr Asn Lys Ala Leu Phe Asp Ala Leu Thr
85          90          95
His Ala Gly Ile Trp Glu Asp Asp Ser Gln Val Gln Arg Met Leu Val
100          105          110
Glu Trp Gly Pro Lys Val Asn Gly Gly Arg Val Glu Ile Ser Ile Thr
115          120          125
Lys His Gln Pro Ala Met Gly Val Met Val
130          135

```

<210> 6386
 <211> 152
 <212> PRT
 <213> Enterobacter cloacae

<400> 6386

Ser Glu Ile Arg Arg Pro Val Asn Ala Ala Val Ser Val Phe Arg Ser
 1 5 10 15
 Cys Ala Gly Asn Arg Arg Ile Ser Met Lys Ser Gly Asp Asn Met Arg
 20 25 30
 Asp Ile Gln Met Val Leu Val Arg Trp Gly Asn Trp Ser Lys Tyr Lys
 35 40 45
 Ile Glu Ala Asp Val Gly Tyr Ser Pro Ile Ala Ala Gly Phe Lys Gly
 50 55 60
 Leu Leu Pro Glu Ser Gly Ala Met Pro Lys Cys Thr Glu Asp Asp Ala
 65 70 75 80
 Leu Ile Ile Asp Ser Cys Leu Ala Arg Leu Lys Leu Lys Arg Pro Asp
 85 90 95
 Glu Tyr Glu Leu Ile Phe Asp His Tyr Val Lys Gly Val Ser Lys Arg
 100 105 110
 Gly Ile Gly Arg Lys Leu Lys Leu Ser Glu Gly Met Val Arg Ile Lys
 115 120 125
 Phe Gln Met Ala Glu Gly Phe Val Glu Gly Cys Leu Ala Met Leu Asp
 130 135 140
 Ile Arg Leu Gln Met Asp Glu
 145 150

<210> 6387

<211> 312

<212> PRT

<213> Enterobacter cloacae

<400> 6387

Arg Thr Thr Met Ser Leu Leu Met Pro Ser Arg Pro Ile Val Ile Asn
 1 5 10 15
 Pro Asp Leu Ala Tyr Ser Ile Gly Leu Asn Glu Ala Ile Ala Leu Gln
 20 25 30
 Gln Val Asn Tyr Trp Leu Lys Glu Thr Thr Ser Gly Leu Glu Arg Asp
 35 40 45
 Gly Val Arg Trp Ile Tyr Asn Thr Thr Glu Gln Trp Leu Glu Gln Phe
 50 55 60
 Pro Phe Trp Ser Glu Ser Thr Leu Lys Arg Thr Phe Thr Arg Leu Lys
 65 70 75 80
 Asn Leu Gly Val Leu Lys Val Asp Gln Leu Asn Lys Ser Gln Arg Asp
 85 90 95
 Met Thr Asn Tyr Tyr Thr Ile Asn Tyr Glu Ser Glu Leu Leu Asp Glu
 100 105 110
 Val Lys Val Thr Lys Ser Lys Ser Ser Lys Cys Thr Leu Pro Ser Gly
 115 120 125
 Gln Asn Glu Pro Met Glu Glu Val Lys Val Glu Arg Ser Ile Gly Ser
 130 135 140
 Lys Arg Thr Ala Leu Ile Arg Ser Asn Cys Thr Asp Val Leu Thr Glu
 145 150 155 160
 Asn Thr Thr Glu Asn Thr Thr Asp Ile Lys Lys Pro Ile Cys Pro Val
 165 170 175
 Ala Pro Gln Pro Asp Ser Asp Val Leu Ile Thr Asp Gln Ala Lys Gln
 180 185 190
 Val Leu Thr His Leu Asn His Val Thr Ser Ser Arg Tyr Gln Val Ser
 195 200 205
 Thr Thr Ser Leu Gln Asn Ile Arg Ala Arg Ile Gly Glu Gly Phe Thr
 210 215 220
 Val Glu Glu Leu Ser Leu Val Val Asp Tyr Cys Asn Ala Lys Trp Ser
 225 230 235 240
 Asp Asp Leu Thr Met Ala Ser Tyr Leu Arg Pro Gln Thr Leu Phe Gln
 245 250 255

Pro Thr Lys Phe Pro Ala Tyr Leu Lys Ser Ala Thr Asn Trp Ala Asn
 260 265 270
 Ala Gly Arg Pro Ala Arg Val Asn Gly Lys Trp Glu Arg Glu Asp Gly
 275 280 285
 Ile Phe Lys Ser Ser Phe Lys Asn Thr Glu Tyr Ser Lys Val Pro Ala
 290 295 300
 Gly Phe Arg Gly Ala Asn Ser
 305 310

<210> 6388
 <211> 125
 <212> PRT
 <213> Enterobacter cloacae

<400> 6388
 Ala Tyr Thr Gly Ser Cys Arg Ser His Glu Lys Thr Ala Gly Ala Arg
 1 5 10 15
 Arg Met Lys Pro Glu Leu Thr Pro Arg Gln Asn Glu Val Phe Glu Ala
 20 25 30
 Ile Lys Val His Ile Glu Lys Ala Gly Phe Pro Pro Thr Met Leu Glu
 35 40 45
 Leu Ala Gly Leu Ile Gly Cys Ala Ser Pro Asn Ala Val Ala His
 50 55 60
 Val Lys Ser Leu Lys Lys Lys Gly Tyr Ile Thr Val Ala Pro Gly Ala
 65 70 75 80
 Ala Arg Gly Ile Thr Val Val Lys Thr Glu Trp Asp Ala Asp Pro Val
 85 90 95
 Thr Ile Ile Lys Gly Leu Leu Ser Gly Gly Asp Lys Ala Arg Asp Asn
 100 105 110
 Ala Val Glu Trp Leu Lys Lys Gln Gly Val Thr Leu
 115 120 125

<210> 6389
 <211> 72
 <212> PRT
 <213> Enterobacter cloacae

<400> 6389
 Cys Asn Asn Pro Ala Asp Asp Pro His His Leu Ile Gly His Gly Gln
 1 5 10 15
 Gly Gly Met Gly Thr Lys Ala His Asp Leu Phe Val Ile Pro Leu Cys
 20 25 30
 Arg Ala His His Asp Glu Leu His Ala Asp Pro Val Ala Phe Glu Ala
 35 40 45
 Lys Tyr Gly Asp Gln Leu Thr Leu Leu Phe Arg Phe Leu Asp Arg Ala
 50 55 60
 Leu Ala Ile Gly Val Leu Ala
 65 70

<210> 6390
 <211> 482
 <212> PRT
 <213> Enterobacter cloacae

<400> 6390
 Ile Thr Pro Gln Thr Gln Asn Phe Asp Phe Phe Leu Leu Leu Asn Ile
 1 5 10 15
 Ser Ile Ala Ala Ile Val Ala Ala Asn Ala Thr His Leu Thr Pro Val
 20 25 30
 Ile Ser Thr Phe Thr Arg Phe Phe Phe Ala Ser Trp Gly Val Leu Asn
 35 40 45

Leu Gly Ile Ile Trp Arg Leu Asp Glu Leu Met Phe Ile Val Leu Met
 50 55 60
 Leu Asn Leu Leu Tyr Gly Phe Ala Ile Tyr Arg His Ala Leu Thr Ser
 65 70 75 80
 His Ala Phe Phe Ile Gln Gln Ala Leu Leu Glu Glu Lys Ser Ser Arg
 85 90 95
 Leu Ala Glu Gln Phe Arg Gln Ala Lys Glu Asp Ala Glu Gln Ala Leu
 100 105 110
 Leu Asp Lys Asn Gln Phe Leu Thr Thr Ala Ser His Asp Leu Arg Gln
 115 120 125
 Pro Val His Ala Met Gly Phe Leu Ile Glu Ala Ile Leu His Arg Asn
 130 135 140
 Arg Asp Gly Ser Leu Thr Pro Gln Leu Leu Asp Leu Gln Gln Ser Val
 145 150 155 160
 Arg Ser Val His Leu Met Leu Asn Ser Leu Leu Asp Leu Ser Lys Ile
 165 170 175
 Glu Ser Gly Asn Val Leu Ser Ala Pro Thr Lys Val Asp Ile Gly Ala
 180 185 190
 Leu Leu Asp Ser Val Ile Thr Leu Phe Arg Glu Glu Ala Asn Ser Arg
 195 200 205
 Ala Leu Arg Leu Cys Ile Arg Arg Pro Lys Arg His Ile Tyr Val Met
 210 215 220
 Gly Asp Pro Leu Leu Val Arg Gln Ser Leu Ile Asn Leu Ile Gln Asn
 225 230 235 240
 Ala Leu Arg Tyr Thr Leu Gln Gly Gly Val Leu Val Ala Ile Arg Pro
 245 250 255
 Arg Gly Asp Glu Cys Met Val Glu Val Trp Asp Thr Gly Val Gly Ile
 260 265 270
 Ala Asp Glu Glu Lys Gly Lys Ile Phe Ser Pro Tyr Tyr Arg Pro Glu
 275 280 285
 Leu Ala Trp Lys Ile Asp Ser Ala Gly His Gly Leu Gly Leu Ala Val
 290 295 300
 Val Ala Arg Cys Ala Lys Leu Met Lys Val Lys Tyr Gly Met Gln Ser
 305 310 315 320
 Ile Glu Gly Lys Gly Ser Arg Phe Trp Met Arg Phe Thr Gln Tyr Ala
 325 330 335
 Gly Glu Asp Ser Val Leu Asp Thr Pro Pro Ala Ala Asp Asn Thr Ala
 340 345 350
 Thr Pro Val Arg Tyr Ala Pro Leu His Gly Ser Cys Leu Val Val Asp
 355 360 365
 Asp Asp Pro Leu Val Thr Ser Ala Trp Glu Ser Leu Met Ser Val Trp
 370 375 380
 Gly Ile Asp Val Arg Cys Ala Ala Ser Ala Glu Glu Ala Phe Ala Ile
 385 390 395 400
 Ile Asp Asp Gly Phe Thr Pro Phe Ala Val Leu Cys Asp Gln Arg Leu
 405 410 415
 Arg Ser Gly Glu Ser Gly Phe Asp Ile Leu Lys Ala Leu Phe Glu Arg
 420 425 430
 Leu Pro Asp Met Ser Gly Ala Ile Val Ser Gly Glu Phe Asn Ser Pro
 435 440 445
 Val Leu Leu Glu Ala Glu Gln Glu Gly Tyr Leu Val Leu Arg Lys Pro
 450 455 460
 Leu Glu Pro Ala Lys Leu His Ala Leu Leu Thr Gln Trp Leu Gly Cys
 465 470 475 480
 Arg

<210> 6391

<211> 462

<212> PRT

<213> Enterobacter cloacae

<400> 6391

Pro	Gly	Arg	Cys	Val	Met	Ser	Glu	Met	Met	Met	Pro	Cys	Ser	Tyr	Glu
1			5					10						15	
Ala	Glu	Gln	Ala	Val	Leu	Gly	Gly	Leu	Met	Leu	Asp	Asn	Asp	Arg	Trp
			20					25					30		
Asp	Glu	Val	Ile	Leu	Gln	Ile	Ser	Pro	Glu	Asp	Leu	Phe	Ser	Arg	Pro
		35					40					45			
His	Arg	Met	Val	Phe	Arg	Val	Met	Ala	Glu	Leu	Ala	Gly	Glu	Gly	Leu
		50				55					60				
Pro	Leu	Asp	Leu	Ile	Thr	Ile	Thr	Glu	Arg	Leu	Glu	Asn	Arg	Gly	Asp
65					70					75					80
Leu	Glu	Gln	Cys	Gly	Gly	Phe	Ala	Tyr	Leu	Ala	Glu	Met	Ser	Lys	Asn
			85						90					95	
Thr	Pro	Ser	Ala	Ala	Asn	Ile	Leu	Ala	Tyr	Ala	Gly	Val	Val	Ala	Glu
			100					105					110		
Lys	Ser	Arg	Leu	Arg	Gln	Leu	Met	Thr	Val	Gly	Asn	Ser	Leu	Leu	Ser
		115					120					125			
Asp	Val	Gln	Ala	Pro	Lys	Ala	Ser	Ser	Ala	Gly	Ile	Leu	Glu	Ser	Ala
	130					135					140				
Glu	Gly	Lys	Leu	Phe	Asn	Ile	Ala	Glu	Gln	Gly	Ala	Met	Gln	Leu	Asn
145					150					155					160
Ser	Glu	Thr	Gly	Val	Asn	Glu	Ala	Leu	Asp	Lys	Leu	Leu	Thr	Gln	Leu
			165						170					175	
Glu	Ser	Met	Ser	Ala	Ser	Asp	Gly	Leu	Thr	Gly	Thr	Pro	Thr	Gly	Phe
			180					185					190		
Ser	Glu	Leu	Asp	Ala	Met	Thr	Cys	Gly	Leu	Glu	Pro	Gly	Asp	Leu	Ala
		195					200					205			
Leu	Leu	Ala	Ala	Arg	Pro	Ser	Met	Gly	Lys	Thr	Ser	Leu	Ala	Met	Ala
	210					215					220				
Ala	Cys	Thr	Ala	Ala	Val	Ser	Ala	Lys	Pro	Asp	Asp	His	Val	Phe	Val
225					230					235					240
Phe	Ser	Leu	Glu	Met	Pro	Ser	Glu	Gln	Leu	Met	Met	Arg	Leu	Leu	Ala
			245						250					255	
Met	Glu	Gly	Arg	Val	Glu	Leu	Ser	Arg	Leu	Arg	Ser	Gly	Asn	Met	Asp
			260					265					270		
Asp	Glu	Asp	Trp	Ala	Arg	Val	Ser	Glu	Ala	Thr	Gly	Arg	Ile	Ile	Glu
		275					280					285			
Trp	Lys	Asn	Arg	Leu	Ile	Ile	Asp	Asp	Thr	Ser	Tyr	Gln	Thr	Pro	Ala
	290					295					300				
Thr	Leu	Arg	Ala	Arg	Ala	Arg	Arg	Tyr	Val	Arg	Lys	Tyr	Gly	Arg	Pro
305					310					315					320
Ser	Leu	Ile	Met	Leu	Asp	Tyr	Leu	Gln	Leu	Val	Arg	Ser	Pro	Glu	Gln
			325						330					335	
Glu	Asn	Arg	Thr	Gln	Glu	Ile	Ala	Glu	Ile	Ser	Arg	Ser	Leu	Lys	Ala
			340					345					350		
Leu	Gly	Lys	Glu	Leu	Gly	Cys	Pro	Val	Leu	Ala	Leu	Ser	Gln	Leu	Asn
		355					360					365			
Arg	Leu	Val	Glu	Gln	Arg	Ala	Asp	Lys	Arg	Pro	Asn	Asn	Gly	Asp	Leu
	370					375					380				
Arg	Asp	Ser	Gly	Ala	Leu	Glu	Gln	Asp	Ala	Asp	Leu	Ile	Met	Phe	Ile
385					390					395					400
Tyr	Arg	Asp	Glu	Val	Tyr	Asn	Pro	Gly	Thr	Pro	Asp	Ala	Gly	Val	Ala
			405						410					415	
Glu	Ile	Ile	Val	Gly	Lys	Gln	Arg	Gln	Gly	Pro	Thr	Gly	Thr	Val	Lys
			420					425					430		
Val	Lys	Phe	Asp	Gly	Arg	Tyr	Thr	Leu	Phe	Ser	Glu	Phe	Gln	Glu	Gly
		435					440					445			
Ser	Tyr	Asp	Phe	Gly	Tyr	Arg	Ser	Gly	Arg	Lys	Gln	Ala			
	450					455					460				

<210> 6392
 <211> 296
 <212> PRT
 <213> Enterobacter cloacae

<400> 6392

Arg	Val	Cys	Lys	Met	Lys	Ile	Leu	Pro	Val	Ile	Ser	Pro	Lys	Gly	Gly		
1				5					10					15			
Glu	Gly	Lys	Ser	Thr	Phe	Ala	Ala	Tyr	Leu	Ala	Gly	Phe	Leu	Ala	Asp		
		20						25					30				
Ala	Gly	Leu	Asn	Thr	Leu	Leu	Val	Asp	Ala	Asp	Tyr	Ser	Gln	Pro	Thr		
		35					40					45					
Ala	Ser	Ser	Ile	Phe	Ala	Leu	Glu	Asp	Glu	Ser	Pro	Phe	Gly	Leu	Tyr		
	50					55					60						
Glu	Leu	Leu	Met	Gln	Met	Val	Ser	Asp	His	Thr	Gln	Cys	Ile	Ser	Gln		
65				70						75					80		
Thr	Ala	Ile	Lys	Asn	Leu	Asp	Val	Ile	Tyr	Ser	Asn	Asp	Pro	Asp	Glu		
				85					90					95			
Leu	Leu	Pro	Thr	Ala	Met	Leu	His	Ala	Ala	Asp	Gly	Arg	Leu	Arg	Leu		
			100					105					110				
Arg	Asn	Ile	Leu	Gln	His	Pro	Phe	Asn	Arg	Tyr	Asp	Ala	Ile	Ile			
		115					120					125					
Val	Asp	Ser	Lys	Gly	Ala	Thr	Gly	Val	Met	Thr	Glu	Leu	Ser	Leu	Leu		
	130					135					140						
Ser	Ser	Thr	Gly	Asn	Val	Met	Gly	Ile	Val	Lys	Pro	Ile	Leu	Pro	Asp		
145				150						155					160		
Val	Arg	Glu	Phe	Ile	Arg	Gly	Ser	Leu	His	Met	Leu	Thr	Arg	Leu	Lys		
				165					170					175			
Thr	Tyr	Glu	Asn	Tyr	Gly	Ile	Arg	Leu	Pro	Asp	Ile	Ser	Ile	Leu	Val		
			180					185					190				
Asn	Cys	Ile	Glu	Asn	Thr	Leu	Leu	Asp	Arg	Glu	Ala	Met	Asp	Gly	Leu		
		195				200					205						
Ala	Ala	Ile	Ile	Asn	Glu	Lys	His	Tyr	Asp	Ala	Ser	Ala	Leu	Gly	Asn		
	210					215					220						
Arg	Asp	Val	Tyr	Arg	Leu	Leu	Asp	Thr	Arg	Ile	Glu	Ala	Leu	Asp	Ile		
225					230					235					240		
Phe	Lys	Leu	Gly	His	Val	Lys	Gln	Gln	Pro	Val	His	Arg	Leu	Glu	Tyr		
				245					250					255			
Lys	Thr	Arg	Arg	Lys	Gly	Pro	Ala	Ala	Val	Thr	Met	His	Asp	Leu			
			260					265				270					
Ala	Cys	Glu	Leu	Phe	Pro	Glu	Trp	Gln	Ser	His	Phe	Ser	Asp	Val	Leu		
		275				280						285					
Thr	Arg	Glu	Val	Arg	His	Val											
	290					295											

<210> 6393
 <211> 575
 <212> PRT
 <213> Enterobacter cloacae

<400> 6393

Leu	Arg	Leu	Pro	Gln	Arg	Glu	Glu	Thr	Gly	Met	Ser	Arg	Lys	Ser	Ser		
1				5					10					15			
Asn	Val	Gly	Ala	Ala	Met	Leu	Gln	Pro	Gly	Arg	Gln	Ser	Gln	Ala	Ala		
		20						25					30				
Gly	Asn	Ile	Ser	Val	Met	Pro	Ala	Ala	Glu	Met	Pro	Met	Val	Leu	Thr		
		35					40					45					
Leu	Asp	Gln	Leu	Ser	Pro	Asn	Pro	Asp	Asn	Pro	Arg	Thr	Ser	Arg	Asn		
	50					55					60						
Pro	Arg	Tyr	Asp	Asp	Ile	Lys	Ala	Ser	Ile	Arg	Ser	Arg	Gly	Leu	Asp		
65					70					75					80		

Thr	Val	Pro	Lys	Val	Thr	Arg	Asp	Pro	Asp	Gly	Glu	Pro	Asp	Met	Tyr
			85						90					95	
Ile	Phe	Ser	Asp	Gly	Gly	Asn	Thr	Arg	Tyr	Gln	Ile	Leu	Ser	Glu	Leu
			100					105					110		
Trp	Gln	Glu	Thr	Gly	Glu	Asp	Arg	Phe	Phe	Arg	Val	His	Val	Leu	Phe
		115					120					125			
Lys	Pro	Trp	Pro	Gly	Arg	Leu	Gln	Cys	Val	Ile	Gly	His	Leu	Ala	Glu
	130					135					140				
Asn	Glu	Val	Arg	Gly	Glu	Leu	Ser	Phe	Ile	Glu	Lys	Ala	Gln	Gly	Ile
145					150					155					160
His	Lys	Ala	Arg	Ser	Ile	Tyr	Glu	Glu	Gln	Met	Gly	Lys	Thr	Val	Ser
				165					170					175	
Leu	Arg	Gln	Leu	Ser	Glu	Leu	Leu	Thr	His	Glu	Gly	Leu	Pro	Val	His
			180					185					190		
Tyr	Ser	Thr	Val	Ser	Arg	Met	Glu	Asp	Ala	Leu	Lys	Tyr	Leu	Tyr	Pro
		195					200					205			
Trp	Ile	Pro	Asp	Leu	Leu	Glu	Ser	Gly	Leu	Gly	Arg	Pro	Gln	Ile	Thr
	210					215					220				
Ala	Leu	Leu	Ala	Leu	Arg	His	Asp	Ala	Glu	Arg	Val	Trp	Asp	Glu	Phe
225					230					235					240
Cys	Leu	Ile	Ser	Asp	Thr	Gly	Asp	Lys	Ser	Phe	Ser	Asp	Val	Phe	Gly
				245					250					255	
Gln	Cys	Cys	Gly	Arg	Phe	Asn	Ser	Pro	Glu	Leu	Trp	Ser	Leu	Glu	Met
			260					265					270		
Phe	Arg	Asp	Glu	Leu	Ile	Gly	Asp	Leu	Leu	His	Ala	Leu	Pro	His	Pro
		275					280					285			
Glu	Leu	Asp	Tyr	Asp	Arg	Trp	Met	Met	Glu	Leu	Asp	Pro	Lys	Glu	Arg
	290					295					300				
Asn	Arg	Arg	His	His	Phe	Gly	Asp	Pro	Glu	Pro	Val	Ser	Ile	Pro	Pro
305					310					315					320
Ala	Asn	Ser	Leu	Val	Thr	Ala	Asp	Ser	Ala	Gly	Gln	Ala	Thr	Pro	Ala
				325					330					335	
Gln	Lys	Ser	Val	Glu	Val	Val	Gln	Pro	Phe	Ser	Ser	Pro	Arg	Arg	Glu
			340					345					350		
Ile	Ser	Gly	Glu	Pro	Val	Thr	Pro	Ala	Pro	Asp	Asn	Thr	Pro	Pro	Glu
		355					360					365			
Lys	Leu	Asp	Lys	Gln	His	Pro	Arg	His	Glu	Val	Gln	Pro	Asp	Met	Tyr
	370					375					380				
Gly	Ala	Ala	Pro	Val	Ile	Ser	Gly	Glu	Ser	Ala	Asp	Val	Ser	Gly	Leu
385					390					395					400
Val	Thr	Leu	Ser	Asp	Gly	Tyr	Gly	Glu	Glu	Asn	Gly	Gly	Glu	Glu	Gly
				405					410					415	
Asn	Gly	Glu	Asp	Gly	Leu	Leu	Ser	Leu	Leu	Thr	Pro	Glu	Pro	Glu	Val
			420					425					430		
Val	Leu	Gln	Asp	Asp	Ala	Pro	Val	Thr	Asn	Asp	Ser	Ile	Trp	His	Val
		435					440					445			
Pro	Ala	His	Gln	Asp	Asp	Ile	Glu	His	Leu	Gln	Asn	Thr	Ala	Phe	Arg
	450					455					460				
Leu	Ala	Trp	Glu	Leu	Gly	Glu	Val	Leu	Gly	Cys	Glu	Asp	Glu	Ile	Leu
465					470					475					480
Pro	Gln	Arg	Asp	Asn	Asp	Met	Ser	Ala	Gly	Tyr	Val	Gly	Ala	Gly	Glu
				485					490					495	
Met	Cys	Ser	Glu	Ala	Ala	Ala	Phe	Leu	Leu	Gly	Leu	Thr	Gly	Glu	Ala
			500					505					510		
Pro	Ala	Leu	His	Pro	Ala	Ala	Gly	Val	Cys	Gly	Leu	Pro	Glu	Leu	Phe
		515					520					525			
Thr	Gly	Gly	Pro	Gly	Glu	Gly	Glu	Ala	Pro	Ala	Leu	Thr	Asp	Glu	Asp
	530					535						540			
Ala	Leu	Lys	Leu	Leu	Arg	Leu	Leu	Arg	Val	Met	Arg	Arg	Leu	Arg	Glu
545					550					555					560
Leu	Gln	Arg	Gly	Leu	Thr	Tyr	Gly	Glu	Asp	Asn	Ser	Asp	Glu		

565

570

575

<210> 6394

<211> 268

<212> PRT

<213> Enterobacter cloacae

<400> 6394

Gln	His	Asp	Ser	Leu	Phe	Thr	Leu	Pro	Pro	Tyr	Ala	Gly	Ala	Val	Leu
1				5					10					15	
Ser	Ile	Leu	Thr	Val	Gln	Asn	Gly	Arg	Asp	Gly	Gly	Arg	Lys	Gly	Lys
		20					25						30		
Ile	Met	Ser	Leu	Pro	Ala	Glu	Ser	Leu	Ile	Ala	Tyr	Thr	Leu	Asp	Lys
		35					40					45			
Met	Asn	Ala	Arg	Leu	Ala	Ala	Ser	Pro	Arg	Arg	Asp	Asp	Gly	Arg	Ile
	50					55					60				
Arg	Asn	Gly	Leu	Leu	Phe	Thr	Gly	Asn	Val	His	Asp	Ser	Ile	Pro	Arg
65					70				75					80	
Arg	Leu	Leu	Leu	Asp	Thr	Arg	Leu	Ser	Pro	Leu	Asp	Lys	Met	Gly	Trp
				85				90						95	
Met	Met	Ile	Arg	Leu	Tyr	Ala	Gln	Asn	Asn	Glu	Gly	Ala	Val	Phe	Pro
		100						105					110		
Ser	Tyr	Asp	Glu	Leu	Gln	Leu	Gln	Leu	Ala	Ser	Pro	Gly	Lys	Gly	Lys
		115					120					125			
Ala	Ser	Arg	Glu	Thr	Val	Ser	Arg	Val	Leu	Leu	Met	Leu	Arg	Ile	Thr
	130					135					140				
Gly	Trp	Leu	Ser	Leu	Cys	Lys	Arg	Val	Arg	Asp	Asp	Lys	Gly	Arg	Val
145					150					155					160
Arg	Gly	Asn	Ile	Tyr	Ala	Gln	His	Asp	Glu	Pro	Leu	Thr	Phe	Ser	Asp
			165					170						175	
Ala	Glu	Met	Leu	Asp	Pro	Arg	Phe	Leu	Asp	Val	Val	Ala	Asp	Ala	Cys
		180						185					190		
Leu	Ser	Lys	Asn	Arg	Thr	Ile	Ser	Gln	Asn	Ala	Arg	Glu	Val	Leu	Asp
		195					200					205			
Asp	Ile	Lys	Asn	Asp	Pro	Thr	Met	Arg	His	Tyr	Arg	Ser	His	Leu	Ala
	210					215					220				
Leu	Ile	Glu	Ser	Arg	Leu	Asp	Ser	Pro	Gln	Ser	Pro	Ser	Gln	Met	Ala
225					230					235				240	
Lys	His	His	His	Arg	Ile	Pro	Cys	Pro	Ala	Pro	Gly	Ser	Glu	Thr	Ala
				245					250					255	
Arg	Leu	His	Tyr	Glu	Met	Arg	Ile	Arg	Thr	Asp	Cys				
		260						265							

<210> 6395

<211> 285

<212> PRT

<213> Enterobacter cloacae

<400> 6395

Thr	Gly	Ser	Arg	Gly	Leu	Pro	Gly	Glu	Lys	Trp	Val	Trp	Leu	Tyr	Leu
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Trp	Arg	Arg	Leu	Pro	Arg	Val	Arg	Gln	Gln	Ile	Gln	Pro	Val	Gln	Gln
		20					25					30			
Pro	Pro	His	Arg	Arg	Asp	Gly	Cys	Asp	Gln	Gln	Asn	Gly	Ala	Ala	Pro
		35				40						45			
Met	Ile	Glu	Leu	Val	Ile	Val	Ser	Arg	Leu	Leu	Glu	Tyr	Pro	Asp	Ala
	50					55					60				
Ala	Leu	Val	Gln	His	Gln	Gln	Glu	Leu	Phe	Asp	Ala	Leu	Ala	Ser	Ser
65					70				75					80	
Glu	Asn	Leu	Asp	Lys	Glu	Asp	Ala	Gln	Lys	Leu	Gly	Val	Phe	Leu	Arg
				85					90					95	

Asp	Leu	Leu	Ala	Arg	Asp	Leu	Leu	Asp	Ala	Gln	Ala	Asp	Tyr	Ser	Gln
			100					105					110		
Leu	Phe	Asp	Arg	Gly	Arg	Ala	Thr	Ser	Leu	Leu	Leu	Phe	Glu	His	Val
		115					120					125			
His	Gly	Glu	Ser	Arg	Asp	Arg	Gly	Gln	Ala	Met	Val	Asp	Leu	Met	Ala
	130					135					140				
Gln	Tyr	Glu	Gln	His	Gly	Leu	Gln	Leu	Asp	Ser	Arg	Glu	Leu	Pro	Asp
145					150				155						160
His	Leu	Pro	Leu	Tyr	Leu	Glu	Tyr	Leu	Ala	Gln	Leu	Pro	Lys	Glu	Glu
			165						170					175	
Ala	Leu	Gly	Gly	Leu	Gln	Asp	Ile	Ala	Pro	Ile	Leu	Ala	Leu	Leu	Gly
		180						185					190		
Ala	Arg	Leu	Gln	Gln	Arg	Glu	Ser	Ser	Tyr	Ala	Val	Leu	Phe	Asp	Leu
		195					200					205			
Leu	Val	Lys	Leu	Ala	Asn	Ala	Ser	Val	Asp	Ser	Gln	Lys	Val	Ala	Glu
	210				215						220				
Lys	Ile	Ala	Asp	Glu	Ala	Arg	Asp	Asp	Thr	Pro	Gln	Ala	Leu	Asp	Ala
225				230						235					240
Val	Trp	Glu	Glu	Glu	Gln	Val	Lys	Phe	Phe	Ala	Asp	Gln	Ser	Cys	Gly
			245					250						255	
Glu	Ser	Glu	Ile	Ser	Ala	His	Gln	Arg	Phe	Ala	Gly	Ala	Val	Ala	
			260					265					270		
Pro	Gln	Tyr	Leu	Asn	Ile	Ser	Asn	Gly	Gly	Gln	His				
		275					280					285			

<210> 6396

<211> 519

<212> PRT

<213> Enterobacter cloacae

<400> 6396

Pro	Gly	Thr	Gly	Glu	Arg	Lys	Met	Lys	Ile	Arg	Ser	Gln	Val	Gly	Met
1				5					10					15	
Val	Leu	Asn	Leu	Asp	Lys	Cys	Ile	Gly	Cys	His	Thr	Cys	Ser	Val	Thr
			20					25					30		
Cys	Lys	Asn	Val	Trp	Thr	Ser	Arg	Glu	Gly	Met	Glu	Tyr	Ala	Trp	Phe
		35				40					45				
Asn	Asn	Val	Glu	Ser	Lys	Pro	Gly	Thr	Gly	Phe	Pro	Thr	Asp	Trp	Glu
	50				55					60					
Asn	Gln	Glu	Lys	Trp	Lys	Gly	Gly	Trp	Ile	Arg	Lys	Ile	Asn	Gly	Lys
65				70					75					80	
Leu	Gln	Pro	Arg	Met	Gly	Asn	Arg	Ala	Met	Leu	Leu	Gly	Lys	Ile	Phe
			85					90						95	
Ala	Asn	Pro	His	Leu	Pro	Gly	Ile	Asp	Asp	Tyr	Tyr	Glu	Pro	Phe	Asp
			100					105					110		
Tyr	Asp	Tyr	Gln	Asn	Leu	His	Asn	Ala	Pro	Glu	Ser	Lys	His	Gln	Pro
	115						120					125			
Ile	Ala	Arg	Pro	Arg	Ser	Leu	Ile	Thr	Gly	Gln	Arg	Met	Asp	Lys	Ile
	130					135					140				
Thr	Ser	Gly	Pro	Asn	Trp	Glu	Glu	Ile	Leu	Gly	Gly	Glu	Phe	Glu	Lys
145				150					155						160
Arg	Ala	Lys	Asp	Gln	Asn	Phe	Glu	Asn	Met	Gln	Lys	Ala	Met	Tyr	Gly
			165					170						175	
Gln	Phe	Glu	Asn	Thr	Phe	Met	Met	Tyr	Leu	Pro	Arg	Leu	Cys	Glu	His
		180						185					190		
Cys	Leu	Asn	Pro	Ala	Cys	Val	Ala	Thr	Cys	Pro	Ser	Gly	Ala	Ile	Tyr
		195					200					205			
Lys	Arg	Glu	Glu	Asp	Gly	Ile	Val	Leu	Ile	Asp	Gln	Asp	Lys	Cys	Arg
	210					215					220				
Gly	Trp	Arg	Met	Cys	Ile	Thr	Gly	Cys	Pro	Tyr	Lys	Lys	Ile	Tyr	Phe
225					230					235					240

Asn Trp Lys Ser Gly Lys Ser Glu Lys Cys Ile Phe Cys Tyr Pro Arg
 245 250 255
 Ile Glu Ala Gly Met Pro Thr Val Cys Ser Glu Ser Cys Val Gly Arg
 260 265 270
 Ile Arg Tyr Leu Gly Val Leu Leu Tyr Asp Ala Asp Ala Ile Glu Asn
 275 280 285
 Ala Ala Ser Thr Glu Asn Glu Lys Asp Leu Tyr Gln Arg Gln Leu Asp
 290 295 300
 Val Phe Leu Asp Pro Asn Asp Pro Lys Val Ile Glu Gln Ala Leu Lys
 305 310 315 320
 Asp Gly Ile Pro Gln Ser Val Ile Asp Ala Ala Gln Gln Ser Pro Val
 325 330 335
 Tyr Lys Met Ala Met Asp Trp Lys Leu Ala Leu Pro Leu His Pro Glu
 340 345 350
 Tyr Arg Thr Leu Pro Met Val Trp Tyr Val Pro Pro Leu Ser Pro Ile
 355 360 365
 Gln Ser Ala Ala Asp Ala Gly Glu Leu Gly Ser Asn Gly Ile Leu Pro
 370 375 380
 Asp Val Glu Ser Leu Arg Ile Pro Val Gln Tyr Leu Ala Asn Leu Leu
 385 390 395 400
 Thr Ala Gly Asp Thr Gln Pro Val Leu Leu Ala Leu Lys Arg Met Leu
 405 410 415
 Ala Met Arg His Phe Lys Arg Ala Glu Thr Val Asp Gly Val Asn Asp
 420 425 430
 Thr Arg Ala Leu Glu Glu Val Gly Leu Thr Glu Ala Gln Ala Gln Glu
 435 440 445
 Met Tyr Arg Tyr Leu Ala Ile Ala Asn Tyr Glu Asp Arg Phe Val Val
 450 455 460
 Pro Ser Ser His Arg Glu Leu Ala Arg Glu Ala Phe Pro Glu Lys Ser
 465 470 475 480
 Gly Cys Gly Phe Thr Phe Gly Asp Gly Cys His Gly Ser Asp Ser Lys
 485 490 495
 Phe Asn Leu Phe Asn Ser Arg Arg Ile Asp Ala Met Asp Val Thr Ser
 500 505 510
 Lys Thr Glu Pro His Gln
 515

<210> 6397

<211> 1280

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (516)

<400> 6397

Ser Leu Ser Ile Leu Thr Ile Phe His Ser Val Thr Phe Ala Ala Asn
 1 5 10 15
 Gln Gln Cys Arg Phe Arg Glu Pro Gln Ala Pro His Arg Arg Tyr Pro
 20 25 30
 Met Ser Lys Phe Leu Asp Arg Phe Arg Tyr Phe Lys Gln Lys Gly Glu
 35 40 45
 Thr Phe Ala Asp Gly His Gly Gln Val Leu Asp Thr Asn Arg Asp Trp
 50 55 60
 Glu Asp Gly Tyr Arg Gln Arg Trp Gln His Asp Lys Val Val Arg Ser
 65 70 75 80
 Thr His Gly Val Asn Cys Thr Gly Ser Cys Ser Trp Lys Ile Phe Val
 85 90 95
 Lys Asn Gly Leu Val Thr Trp Glu Met Gln Gln Thr Asp Tyr Pro Arg
 100 105 110

Thr	Arg	Pro	Asp	Met	Pro	Asn	His	Glu	Pro	Arg	Gly	Cys	Pro	Arg	Gly
		115					120					125			
Ala	Ser	Tyr	Ser	Trp	Tyr	Leu	Tyr	Ser	Ala	Asn	Arg	Leu	Lys	Tyr	Pro
		130					135				140				
Leu	Met	Arg	Lys	Arg	Leu	Met	Lys	Met	Trp	Arg	Glu	Ala	Lys	Val	Gln
145					150					155					160
His	Ser	Asp	Pro	Val	Asp	Ala	Trp	Ala	Ser	Ile	Ile	Glu	Asp	Ala	Asp
				165					170					175	
Lys	Ala	Lys	Ser	Phe	Lys	Gln	Ala	Arg	Gly	Arg	Gly	Gly	Phe	Val	Arg
			180					185					190		
Ser	Ser	Trp	Lys	Glu	Val	Asn	Glu	Leu	Ile	Ala	Ala	Ser	Asn	Val	Tyr
		195					200					205			
Thr	Val	Lys	Thr	Tyr	Gly	Pro	Asp	Arg	Val	Ala	Gly	Phe	Ser	Pro	Ile
		210				215					220				
Pro	Ala	Met	Ser	Met	Val	Ser	Tyr	Ala	Ser	Gly	Ala	Arg	Tyr	Leu	Ser
225					230					235					240
Leu	Ile	Gly	Gly	Thr	Cys	Leu	Ser	Phe	Tyr	Asp	Trp	Tyr	Cys	Asp	Leu
				245					250					255	
Pro	Pro	Ala	Ser	Pro	Gln	Thr	Trp	Gly	Glu	Gln	Thr	Asp	Val	Pro	Glu
			260					265					270		
Ser	Ala	Asp	Trp	Tyr	Asn	Ser	Ser	Tyr	Ile	Ile	Ala	Trp	Gly	Ser	Asn
			275				280					285			
Val	Pro	Gln	Thr	Arg	Thr	Pro	Asp	Ala	His	Phe	Phe	Thr	Glu	Val	Arg
		290				295					300				
Tyr	Lys	Gly	Thr	Lys	Thr	Val	Ala	Val	Thr	Pro	Asp	Tyr	Ala	Glu	Ile
305					310					315					320
Ala	Lys	Leu	Cys	Asp	Leu	Trp	Leu	Ala	Pro	Lys	Gln	Gly	Thr	Asp	Ala
				325					330					335	
Ala	Met	Ala	Leu	Ala	Met	Gly	His	Val	Met	Leu	Arg	Glu	Phe	His	Leu
			340					345					350		
Asp	Lys	Pro	Ser	Gln	Tyr	Phe	Thr	Asp	Tyr	Val	Arg	Arg	Tyr	Thr	Asp
		355					360					365			
Met	Pro	Met	Leu	Val	Met	Leu	Glu	Glu	Arg	Asp	Gly	Tyr	Tyr	Ala	Ala
		370				375					380				
Gly	Arg	Met	Leu	Arg	Ala	Ala	Asp	Leu	Val	Asp	Ala	Leu	Gly	Gln	Glu
385					390					395					400
Asn	Asn	Pro	Glu	Trp	Lys	Thr	Val	Ala	Cys	Asn	Ser	Asn	Gly	Glu	Leu
				405					410					415	
Val	Ala	Pro	Asn	Gly	Ser	Ile	Gly	Phe	Arg	Trp	Gly	Glu	Lys	Gly	Lys
			420					425					430		
Trp	Asn	Leu	Glu	Gln	Arg	Asn	Gly	Thr	Thr	Gly	Glu	Glu	Thr	Glu	Leu
		435					440					445			
Arg	Leu	Ser	Met	Leu	Gly	Ser	Gln	Asp	Glu	Ile	Ala	Asp	Val	Gly	Phe
		450				455					460				
Pro	Tyr	Phe	Gly	Asn	Glu	Gly	Ser	Glu	His	Phe	Asn	Lys	Val	Glu	Leu
465					470					475					480
Gln	Asn	Val	Leu	Met	His	Lys	Leu	Pro	Val	Lys	Arg	Leu	Gln	Leu	Ala
				485					490					495	
Asp	Gly	Ser	Thr	Ala	Leu	Val	Thr	Thr	Ala	Tyr	Asp	Leu	Thr	Met	Ala
			500					505					510		
Asn	Tyr	Gly	Xaa	Glu	Arg	Gly	Leu	Asn	Asp	Glu	Asn	Cys	Ala	Thr	Ser
		515					520					525			
Tyr	Asp	Asp	Val	Lys	Ala	Tyr	Thr	Pro	Ala	Trp	Ala	Glu	Gln	Ile	Thr
		530				535					540				
Gly	Val	Pro	Arg	Ala	Gln	Ile	Thr	Arg	Ile	Ala	Arg	Glu	Phe	Ala	Glu
545					550					555					560
Asn	Ala	Asp	Lys	Thr	His	Gly	Arg	Ser	Met	Ile	Ile	Val	Gly	Ala	Gly
				565					570					575	
Leu	Asn	His	Trp	Tyr	His	Leu	Asp	Met	Asn	Tyr	Arg	Gly	Leu	Ile	Asn
			580					585					590		
Met	Leu	Ile	Phe	Cys	Gly	Cys	Val	Gly	Gln	Ser	Gly	Gly	Gly	Trp	Ala

		595					600					605				
His	Tyr	Val	Gly	Gln	Glu	Lys	Leu	Arg	Pro	Gln	Thr	Gly	Trp	Gln	Pro	
	610					615					620					
Leu	Ala	Phe	Ala	Leu	Asp	Trp	Gln	Arg	Pro	Ala	Arg	His	Met	Asn	Ser	
625					630					635					640	
Thr	Ser	Tyr	Phe	Tyr	Asn	His	Ser	Ser	Gln	Trp	Arg	Tyr	Glu	Thr	Val	
				645					650					655		
Thr	Ala	Gln	Glu	Leu	Leu	Ser	Pro	Met	Ala	Asp	Lys	Ser	Arg	Tyr	Ser	
			660					665					670			
Gly	His	Leu	Ile	Asp	Phe	Asn	Val	Arg	Ala	Glu	Arg	Met	Gly	Trp	Leu	
		675					680					685				
Pro	Ser	Ala	Pro	Gln	Leu	Gly	Thr	Asn	Pro	Leu	Arg	Ile	Ala	Glu	Ala	
	690					695					700					
Ala	Lys	Lys	Ala	Gly	Met	Ser	Pro	Val	Asp	Tyr	Thr	Val	Lys	Ser	Leu	
705					710					715					720	
Lys	Asp	Gly	Ser	Ile	Arg	Phe	Ala	Ala	Glu	Gln	Pro	Glu	Asn	Gly	Lys	
				725					730					735		
Asn	His	Pro	Arg	Asn	Leu	Phe	Ile	Trp	Arg	Ser	Asn	Leu	Leu	Gly	Ser	
			740					745				750				
Ser	Gly	Lys	Gly	His	Glu	Tyr	Met	Leu	Lys	Tyr	Leu	Leu	Gly	Thr	Glu	
		755					760				765					
Asn	Gly	Ile	Gln	Gly	Lys	Asp	Leu	Gly	Lys	Gln	Gly	Gly	Val	Lys	Pro	
	770					775					780					
Glu	Glu	Val	Glu	Trp	Lys	Asp	Asn	Gly	Leu	Asp	Gly	Lys	Leu	Asp	Leu	
785					790					795					800	
Val	Val	Thr	Leu	Asp	Phe	Arg	Leu	Ser	Ser	Thr	Cys	Leu	Tyr	Ser	Asp	
				805					810					815		
Ile	Val	Leu	Pro	Thr	Ala	Thr	Trp	Tyr	Glu	Lys	Asp	Asp	Met	Asn	Thr	
			820					825					830			
Ser	Asp	Met	His	Pro	Phe	Ile	His	Pro	Leu	Ser	Ala	Ala	Val	Asp	Pro	
		835					840					845				
Ala	Trp	Glu	Ser	Lys	Ser	Asp	Trp	Glu	Ile	Tyr	Lys	Asp	Ile	Ala	Lys	
	850					855					860					
Lys	Phe	Ser	Glu	Val	Cys	Val	Gly	His	Leu	Gly	Lys	Glu	Thr	Asp	Val	
865					870					875					880	
Val	Thr	Leu	Pro	Ile	Gln	His	Asp	Ser	Ala	Ala	Glu	Leu	Ala	Gln	Pro	
				885					890					895		
Leu	Asp	Val	Lys	Asp	Trp	Lys	Lys	Gly	Glu	Cys	Asp	Leu	Ile	Pro	Gly	
		900						905					910			
Val	Thr	Ala	Pro	His	Ile	Ile	Pro	Val	Glu	Arg	Asp	Tyr	Pro	Ala	Thr	
	915						920					925				
Tyr	Glu	Arg	Phe	Thr	Ser	Ile	Gly	Pro	Leu	Met	Glu	Lys	Ile	Gly	Asn	
	930					935					940					
Gly	Gly	Lys	Gly	Ile	Ala	Trp	Asn	Thr	Gln	Ser	Glu	Met	Asp	Leu	Leu	
945					950				</							

Glu Ser Leu Leu Val Tyr Arg Pro Pro Ile Asp Thr Arg Ser Val Lys
 1090 1095 1100
 Ala Val Met Gly Ala Lys Ser Asn Gly Asn Pro Glu Lys Ala Leu Asn
 1105 1110 1115 1120
 Phe Leu Thr Pro His Gln Lys Trp Gly Ile His Ser Thr Tyr Ser Asp
 1125 1130 1135
 Asn Leu Leu Met Leu Thr Leu Ser Arg Gly Gly Pro Ile Val Trp Met
 1140 1145 1150
 Ser Glu Ala Asp Ala Lys Asp Leu Gly Ile Glu Asp Asn Asp Trp Ile
 1155 1160 1165
 Glu Val Phe Asn Ser Asn Gly Ala Leu Thr Ala Arg Ala Val Val Ser
 1170 1175 1180
 Gln Arg Val Pro Ala Gly Met Thr Met Met Tyr His Ala Gln Glu Arg
 1185 1190 1195 1200
 Ile Val Asn Leu Pro Gly Ser Glu Ile Thr Glu Gln Arg Gly Gly Ile
 1205 1210 1215
 His Asn Ser Val Thr Arg Ile Thr Pro Lys Pro Thr His Met Ile Gly
 1220 1225 1230
 Gly Tyr Ala Gln Leu Ala Tyr Gly Phe Asn Tyr Tyr Gly Thr Val Gly
 1235 1240 1245
 Ser Asn Arg Asp Glu Phe Val Val Val Arg Lys Met Lys Asn Ile Asn
 1250 1255 1260
 Trp Leu Asp Gly Glu Gly Asn Asp Gln Val Gln Glu Ser Val Lys
 1265 1270 1275 1280

<210> 6398

<211> 91

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (69)

<220>

<221> UNSURE

<222> (86)

<220>

<221> UNSURE

<222> (87)

<400> 6398

Arg Arg Thr Ala Leu Met His Phe Leu Asn Met Phe Phe Phe Asp Ile
 1 5 10 15
 Tyr Pro Tyr Ile Ala Gly Thr Val Phe Leu Val Gly Ser Trp Leu Arg
 20 25 30
 Tyr Asp Tyr Gly Gln Tyr Thr Trp Arg Ala Ala Ser Ser Gln Met Leu
 35 40 45
 Asp Arg Lys Gly Met Asn Leu Ala Ser Asn Leu Phe His Ile Gly Ile
 50 55 60
 Leu Gly Ile Phe Xaa Arg Ser Leu Pro Gly Ala Leu Thr Pro His Trp
 65 70 75 80
 Tyr Ser His Pro Ala Xaa Xaa Glu Leu Gln Ser
 85 90

<210> 6399

<211> 299

<212> PRT

<213> Enterobacter cloacae

<400> 6399

Tyr Ala Ala Leu Glu Asn Arg Ala Gly Glu Gly Gly Met Ile Trp His
 1 5 10 15
 Leu Phe Phe Gln Pro Phe Ile Glu Tyr Gly Phe Met Arg Arg Ala Leu
 20 25 30
 Val Val Cys Leu Ala Leu Ser Val Ser Thr Thr Ala Leu Gly Val Phe
 35 40 45
 Leu Gln Leu Arg Arg Met Ser Leu Met Gly Asp Ala Leu Ser His Ala
 50 55 60
 Ile Leu Pro Gly Val Ala Val Gly Tyr Leu Leu Ser Gly Met Ser Leu
 65 70 75 80
 Leu Ala Met Thr Val Gly Gly Phe Ile Ala Gly Ile Ala Val Ala Leu
 85 90 95
 Val Ala Gly Leu Val Ser Arg Arg Thr Pro Leu Lys Glu Asp Ala Ser
 100 105 110
 Phe Ala Gly Phe Tyr Leu Gly Ser Leu Ala Leu Gly Val Thr Leu Val
 115 120 125
 Ser Leu Arg Gly Ser Asn Val Asp Leu Leu His Leu Leu Phe Gly Ser
 130 135 140
 Ile Leu Ala Val Asp Ser Ala Ser Ala Leu Phe Val Thr Gly Val Cys
 145 150 155 160
 Met Phe Thr Leu Leu Thr Leu Ala Ile Phe Tyr Arg Gly Leu Val Ser
 165 170 175
 Glu Ala Phe Asp Thr Ala Trp Leu Gln Val Asn Ala Arg Trp Leu Pro
 180 185 190
 Gly Met Leu His Gly Leu Phe Leu Ala Leu Leu Val Leu Asn Leu Val
 195 200 205
 Ala Gly Phe Gln Val Leu Gly Thr Leu Met Ala Val Gly Leu Met Met
 210 215 220
 Leu Pro Ala Val Ala Ala Arg Cys Trp Val Arg Thr Leu Pro Gly Leu
 225 230 235 240
 Leu Leu Met Ala Gly Ile Ser Gly Ile Phe Cys Ala Trp Leu Gly Leu
 245 250 255
 Ser Leu Ser Trp Ala Val Ser Leu Pro Ala Gly Pro Ser Ile Val Leu
 260 265 270
 Thr Ala Ser Ala Leu Phe Phe Ile Ser Val Leu Phe Gly Thr Arg Ser
 275 280 285
 Arg Leu Ala Asp Ser Leu Arg Ala Leu Phe
 290 295

<210> 6400

<211> 211

<212> PRT

<213> Enterobacter cloacae

<400> 6400

Asn Lys Arg Leu Ser Gly Arg Cys Ala Arg Ile Gly Phe Phe Leu Lys
 1 5 10 15
 Pro Pro Arg Lys Thr Arg Arg Ala Ser Pro Tyr Leu Met Arg Lys Cys
 20 25 30
 Tyr Leu Val Leu His Val Phe Leu Arg Pro Gly Ala Arg Met Thr Asp
 35 40 45
 His Glu Leu Met Gln Leu Ser Glu Val Val Gly Leu Ala Leu Lys Gln
 50 55 60
 Arg Gly Ala Thr Leu Thr Thr Ala Glu Ser Cys Thr Gly Gly Trp Val
 65 70 75 80
 Ala Lys Ala Ile Thr Asp Ile Ala Gly Ser Ser Ala Trp Phe Glu Arg
 85 90 95
 Gly Phe Val Thr Tyr Ser Asn Glu Ala Lys Ala Gln Met Ile Gly Val
 100 105 110
 Arg Glu Ala Thr Leu Glu Gln His Gly Ala Val Ser Glu Pro Val Val

115 120 125
 Ile Glu Met Ala Ile Gly Ala Leu Lys Glu Ala Arg Ala Asp Tyr Ala
 130 135 140
 Ile Ser Ile Ser Gly Ile Ala Gly Pro Asp Gly Gly Ser Asp Val Lys
 145 150 155 160
 Pro Val Gly Thr Val Trp Phe Gly Phe Ala Thr Ser Lys Gly Glu Gly
 165 170 175
 Ile Thr Arg Arg Glu Cys Phe Ser Gly Asp Arg Glu Ser Val Arg Arg
 180 185 190
 Gln Ala Thr Glu Tyr Ala Leu Lys Thr Leu Trp Gln Gln Phe Leu Gln
 195 200 205
 Asn Thr
 210

<210> 6401

<211> 196

<212> PRT

<213> Enterobacter cloacae

<400> 6401

Leu Asp Phe Arg Ile Ile Met Ser Lys Ser Thr Ala Glu Ile Arg Gln
 1 5 10 15
 Ala Phe Leu Asp Phe Phe His Ser Lys Gly His Gln Val Val Ala Ser
 20 25 30
 Ser Ser Leu Val Pro Asn Asn Asp Pro Thr Leu Leu Phe Thr Asn Ala
 35 40 45
 Gly Met Asn Gln Phe Lys Asp Val Phe Leu Gly Leu Asp Lys Arg Asn
 50 55 60
 Tyr Ser Arg Ala Thr Thr Ser Gln Arg Cys Val Arg Ala Gly Gly Lys
 65 70 75 80
 His Asn Asp Leu Glu Asn Val Gly Tyr Thr Ala Arg His His Thr Phe
 85 90 95
 Phe Glu Met Leu Gly Asn Phe Ser Phe Gly Asp Tyr Phe Lys His Asp
 100 105 110
 Ala Ile Gln Tyr Ala Trp Glu Leu Leu Thr Gly Glu Asn Trp Phe Asn
 115 120 125
 Leu Pro Lys Glu Arg Leu Trp Val Thr Val Tyr Glu Thr Asp Asp Glu
 130 135 140
 Ala Phe Asp Ile Trp Glu Lys Glu Val Gly Ile Pro Arg Glu Arg Ile
 145 150 155 160
 Ile Arg Ile Gly Asp Asn Lys Gly Ala Pro Tyr Ala Ser Asp Asn Phe
 165 170 175
 Trp Gln Met Gly Asp Thr Gly Pro Val Phe Tyr His Gly Ala Gly Arg
 180 185 190
 Ile Arg Ala
 195

<210> 6402

<211> 253

<212> PRT

<213> Enterobacter cloacae

<400> 6402

Asp Ile His Val Pro Val Phe Ser Leu Ile Leu Ala Ser Ala Ala Ala
 1 5 10 15
 Gly Ala Gly Ala His Ser Val Ser Arg Pro Gly Arg Ala Leu Gly Gly
 20 25 30
 Gly Val Ala Met Ile Val Met Asn Asp Leu Val Ala Gly Tyr Asp Arg
 35 40 45
 Gln Pro Val Thr Arg Ala Leu Ser Gly Val Ile Glu Arg Gly Ser Met
 50 55 60

Thr Ala Ile Val Gly Ala Asn Gly Cys Gly Lys Ser Thr Leu Leu Lys
 65 70 75 80
 Thr Leu Ala Gly Phe Leu Pro Pro Val Ser Gly Thr Phe Arg Trp Gln
 85 90 95
 Gly Arg Arg Pro Val Val Gly Trp Leu Ala Gln Arg His Ala Leu Glu
 100 105 110
 Ala Gln Phe Pro Leu Thr Val Gln Asp Val Val Ser Met Gly Cys Trp
 115 120 125
 Pro Ala Ile Ser Leu Phe Ala Gly Phe Arg Arg Asp Ala Arg Met Arg
 130 135 140
 Ile Ala Gly Ala Leu Glu Arg Val Gly Leu Glu Ser Met Ala Phe Ser
 145 150 155 160
 Thr Ile Asp Glu Leu Ser Gly Gly Gln Phe Gln Arg Met Leu Phe Ala
 165 170 175
 Arg Val Leu Val Gln Gln Ala Pro Leu Val Met Leu Asp Glu Pro Phe
 180 185 190
 Thr Gly Val Asp Glu Ala Thr Cys Asn Val Leu Met Asp Leu Met Leu
 195 200 205
 Glu Met Tyr Met Gln Gly Gln Thr Leu Leu Ala Val Leu His Asp Ser
 210 215 220
 Glu Arg Val Ser Arg His Phe Pro Gln Thr Leu Arg Leu Asp Ala Asp
 225 230 235 240
 Thr Pro His Trp Lys Thr Glu Arg Val Arg Val Ala
 245 250

<210> 6403

<211> 172

<212> PRT

<213> Enterobacter cloacae

<400> 6403

Ile Asp Arg Phe Phe Met Ser Glu Pro Thr Ser Arg Arg Pro Ala Tyr
 1 5 10 15
 Ser Arg Leu Leu Asp Arg Ala Val Arg Ile Leu Ala Val Arg Asp His
 20 25 30
 Ser Glu Gln Glu Leu Arg Arg Lys Leu Ser Ala Pro Val Met Ser Lys
 35 40 45
 Asn Gly Pro Glu Asp Ile Asp Ala Thr Ala Glu Asp Tyr Asp Arg Val
 50 55 60
 Val Ala Trp Cys Tyr Glu His His Tyr Leu Asp Asp Gly Arg Phe Ala
 65 70 75 80
 Ala Arg Phe Leu Ala Ser Arg Gly Arg Lys Gly Tyr Gly Pro Ala Arg
 85 90 95
 Ile Arg Gln Glu Leu Asn Gln Lys Gly Val Ala Arg Glu Ser Ile Glu
 100 105 110
 Lys Ala Met Arg Glu Ser Glu Ile Asp Trp Cys Glu Leu Ala Arg Glu
 115 120 125
 Gln Ala Val Arg Lys Tyr Gly Glu Pro Leu Pro Arg Glu Phe Ser Glu
 130 135 140
 Lys Val Lys Ile Gln Arg Phe Leu Leu Tyr Arg Gly Phe Leu Met Glu
 145 150 155 160
 Asp Ile Gln Asp Ile Trp Arg Asn Phe Thr Asp
 165 170

<210> 6404

<211> 304

<212> PRT

<213> Enterobacter cloacae

<400> 6404

Pro Ala Gly Ala Phe Leu Thr Gln Gly Glu Thr Met Lys Arg Thr Gly

1	Leu	Ala	Val	Ala	5	Leu	Ala	Leu	Gly	Met	10	Met	Thr	His	Gly	Val	Met	15	Ala
			20							25						30			
Lys	Thr	Leu	Asn	Val	Val	Thr	Ser	Phe	Ser	Ile	Leu	Gly	Asp	Ile	Thr				
		35					40					45							
Gln	Gln	Val	Gly	Gly	Asp	Arg	Val	Lys	Val	Thr	Thr	Leu	Val	Gly	Pro				
	50					55					60								
Asp	Gly	Asp	Pro	His	Thr	Phe	Glu	Pro	Ser	Pro	Lys	Asp	Ser	Ala	Ala				
65					70					75					80				
Leu	Ser	Lys	Ala	Asp	Val	Val	Val	Val	Asn	Gly	Leu	Gly	Leu	Glu	Gly				
				85					90					95					
Trp	Leu	Asp	Arg	Leu	Val	Lys	Ala	Ser	Gly	Phe	Lys	Gly	Gln	Leu	Val				
			100					105					110						
Val	Ala	Ser	Asp	Gly	Val	Lys	Thr	His	Thr	Leu	Glu	Glu	Asp	Gly	Lys				
		115					120					125							
Thr	Val	Thr	Asp	Pro	His	Ala	Trp	Asn	Ser	Ala	Ala	Asn	Gly	Ala	Leu				
	130					135					140								
Tyr	Ala	Gln	Asn	Ile	Leu	Ser	Gly	Leu	Val	Lys	Ala	Asp	Pro	Glu	Asp				
145					150					155					160				
Thr	Ala	Ala	Leu	Glu	Ala	Thr	Gly	Lys	Pro	Tyr	Ile	Ala	Gln	Leu	Ser				
			165					170						175					
Gln	Leu	Asp	Gly	Trp	Ala	Lys	Lys	Arg	Phe	Ser	Asp	Ile	Pro	Gln	Ala				
		180						185					190						
Lys	Arg	Lys	Val	Leu	Thr	Ser	His	Asp	Ala	Phe	Gly	Tyr	Phe	Ser	Arg				
		195					200					205							
Ala	Tyr	Gly	Val	Thr	Phe	Met	Ala	Pro	Gln	Gly	Leu	Ser	Ser	Glu	Ser				
	210					215					220								
Glu	Ala	Ser	Ala	Ala	Gln	Val	Ala	Glu	Ile	Ile	Asn	Gln	Ile	Lys	Ala				
225					230					235					240				
Asp	Gly	Val	Lys	Thr	Trp	Phe	Met	Glu	Asn	Gln	Leu	Asp	Pro	Arg	Leu				
			245							250				255					
Val	Lys	Gln	Ile	Ala	Thr	Ala	Thr	Gly	Ala	Gln	Pro	Gly	Gly	Glu	Leu				
		260						265					270						
Tyr	Pro	Glu	Ala	Leu	Ser	Ala	Lys	Gly	Gly	Val	Ala	Asp	Thr	Tyr	Val				
		275					280					285							
Lys	Ala	Phe	Arg	His	Asn	Val	Asp	Thr	Leu	Ala	Asn	Ser	Met	Lys					
	290					295					300								

<210> 6405

<211> 365

<212> PRT

<213> Enterobacter cloacae

<400> 6405

Ser	Ala	Val	Ala	Ser	Pro	Gly	Met	Thr	Gly	Val	Ile	Met	Ala	Ile	Asp
1				5					10					15	
Glu	Asn	Lys	Gln	Lys	Ala	Leu	Ala	Ala	Ala	Leu	Gly	Gln	Ile	Glu	Lys
		20					25						30		
Gln	Phe	Gly	Lys	Gly	Ser	Ile	Met	Arg	Leu	Gly	Glu	Asp	Arg	Ser	Met
	35						40				45				
Asp	Val	Glu	Thr	Ile	Ser	Thr	Gly	Ser	Leu	Ser	Leu	Asp	Ile	Ala	Leu
	50					55					60				
Gly	Ala	Gly	Gly	Leu	Pro	Met	Gly	Arg	Ile	Val	Glu	Ile	Tyr	Gly	Pro
65				70					75					80	
Glu	Ser	Ser	Gly	Lys	Thr	Thr	Leu	Thr	Leu	Gln	Val	Val	Ala	Ala	Ala
			85					90					95		
Gln	Arg	Glu	Gly	Lys	Thr	Cys	Ala	Phe	Ile	Asp	Ala	Glu	His	Ala	Leu
		100					105					110			
Asp	Pro	Val	Tyr	Ala	Arg	Lys	Leu	Gly	Val	Asp	Ile	Asp	Asn	Leu	Leu
		115					120					125			
Cys	Ser	Gln	Pro	Asp	Thr	Gly	Glu	Gln	Ala	Leu	Glu	Ile	Cys	Asp	Ala

130		135		140
Leu Ala Arg Ser Gly	Ala Val Asp Val Ile Ile	Val Asp Ser Val Ala		
145	150	155	160	
Ala Leu Thr Pro Lys	Ala Glu Ile Glu Gly	Ile Gly Asp Ser His		
	165	170	175	
Met Gly Leu Ala Ala	Arg Met Met Ser Gln	Ala Met Arg Lys Leu Ala		
	180	185	190	
Gly Asn Leu Lys Gln	Ser Asn Thr Leu Leu	Ile Phe Ile Asn Gln Ile		
	195	200	205	
Arg Met Lys Ile Gly	Val Met Phe Gly Asn	Pro Glu Thr Thr Thr Gly		
	210	215	220	
Gly Asn Ala Leu Lys	Phe Tyr Ala Ser Val	Arg Leu Asp Ile Arg Arg		
225	230	235	240	
Ile Gly Ala Val Lys	Glu Gly Asp Asn Val	Val Gly Ser Glu Thr Arg		
	245	250	255	
Val Lys Val Val Lys	Asn Lys Ile Ala Ala	Pro Phe Lys Gln Ala Glu		
	260	265	270	
Phe Gln Ile Leu Tyr	Gly Glu Gly Ile Asn	Phe Leu Gly Glu Leu Val		
	275	280	285	
Asp Leu Gly Val Lys	Glu Lys Leu Ile Glu	Lys Ala Gly Ala Trp Tyr		
	290	295	300	
Ser Tyr Asn Gly Asp	Lys Ile Gly Gln Gly	Lys Ala Asn Ala Ile Ser		
305	310	315	320	
Trp Leu Lys Glu Asn	Pro Ala Ala Ala	Lys Glu Ile Glu Lys Lys Val		
	325	330	335	
Arg Glu Leu Leu Leu	Asn Asn Gln Asp	Ser Lys Pro Asp Phe Val Val		
	340	345	350	
Asp Gly Ala Asp Ala	Glu Glu Thr Asn	Glu Asp Phe		
	355	360	365	

<210> 6406

<211> 80

<212> PRT

<213> Enterobacter cloacae

<400> 6406

Pro Phe Leu Gly	Phe Val Ala Arg	Leu Val Arg Ser	Ala Met Leu Val
1	5	10	15
Leu Leu Cys Val	Asp Phe Phe Arg	Ser Ala Arg Ala	Cys Gly Leu Pro
	20	25	30
Gly Trp Phe Phe	Val Leu Arg Phe	Ala Phe Pro Phe	Ala Leu Ile Pro
	35	40	45
Ser Phe Ser Val	Leu Gly Leu Ala	Leu Gly Asp Leu	Leu Phe Gly Ala
	50	55	60
Val Leu Ser Glu	Thr Val Phe Ala	Trp Pro Gly Met	Gly Ala Trp Val
65	70	75	80

<210> 6407

<211> 110

<212> PRT

<213> Enterobacter cloacae

<400> 6407

Phe Asn Phe Lys	Val Asn Tyr Tyr	Gly Gly Thr Met	Ile His Ser Phe
1	5	10	15
Lys Asp Arg Arg	Leu Glu Lys Phe	Phe Arg Asn Gly	Lys Thr Thr Ala
	20	25	30
Gly Ile Pro Ser	Glu Ile Ile Asn	Ala Ile Leu Cys	Arg Leu Glu Thr
	35	40	45
Leu Asp Asn Val	Gln Ser Glu Arg	Glu Leu Leu Ser	Asn Ser Leu Arg
	50	55	60

Tyr Glu Arg Leu Arg Met Thr Ser Asn Arg Tyr Ser Ser Ile Arg Val
 65 70 75 80
 Asn Ser Lys Tyr Arg Leu Phe Phe Glu Trp Asn Asp Gly Ala His Asn
 85 90 95
 Val His Leu Ser Ala His Asp Tyr Lys Ser Leu Ile His
 100 105 110

<210> 6408

<211> 420

<212> PRT

<213> Enterobacter cloacae

<400> 6408

Gly Trp Leu Met Ser Thr Ile Ser Thr Asp Leu Ile Ala Arg Ile Tyr
 1 5 10 15
 Ala Ala Ser Glu Leu Pro Leu Ser Asn Asp Glu Leu Tyr Arg Glu Val
 20 25 30
 Gln Arg Glu Thr Gly Met Ser Asp Ala Glu Leu His Glu Leu Lys Glu
 35 40 45
 Phe Gly Ser Asp Lys Thr Arg Thr Ser Gly Val Lys His Lys Val Arg
 50 55 60
 Trp Phe Gln Gln Thr Leu Arg Gln Ala Gly Val Ile Glu Arg Val Pro
 65 70 75 80
 Glu Lys Arg Gly Val Trp Arg Tyr Ser Ser Lys Thr Lys Thr Asn Leu
 85 90 95
 His Glu Ser Trp Glu Lys Leu Cys Val Val Gly Phe Ser Thr Ser Leu
 100 105 110
 Gly Ala Ser Val Phe Gly Asn Ala Tyr Ala Phe Phe Ser Asn Ile Thr
 115 120 125
 Glu Gln Ile His Leu Cys Leu Thr Ser Pro Pro Tyr Leu Leu Arg Asn
 130 135 140
 Ser Arg Asp Tyr Gly His Gly Gly Gly Arg Gly Glu Gln Val Tyr Ile
 145 150 155 160
 Asp Trp Leu Leu Arg Ile Leu Glu Pro Ile Val Lys Gln Leu Val Pro
 165 170 175
 Gly Ala Ser Val Ala Leu Asn Ile Thr Gln Asp Ser Phe Asn Arg Gly
 180 185 190
 Arg Pro Ser Arg Ser Leu Tyr Leu Glu Arg Leu Thr Leu Ala Leu Cys
 195 200 205
 Asp Lys Leu Gly Leu Glu Leu Met Asp Arg Leu Gln Trp Val Asn Arg
 210 215 220
 Ser Lys Pro Pro Ser Pro Thr His Trp Ala Cys Lys Gln Arg Val Gln
 225 230 235 240
 Leu Cys Ser Ser Tyr Glu Pro Val Leu Trp Phe Thr Asn Asp Ala Ser
 245 250 255
 Lys Val Arg Ser Asn Asn Leu Arg Val Leu Gln Pro His Ser Glu Gln
 260 265 270
 His Leu Lys Leu Gln Ala Ala Gly Gly Glu Asn Arg Thr Thr Phe Tyr
 275 280 285
 Gly Asp Gly Ala Tyr Gln Leu Lys Ser Gly Ser Phe Gly Asn Lys Thr
 290 295 300
 Glu Gly Thr Ile Pro Lys Asn Thr Leu Phe Tyr Gly Asn Ser Cys Ala
 305 310 315 320
 Asp Thr Arg Phe Cys His Ser Ile Ala Arg Glu Leu Gly Phe Pro Leu
 325 330 335
 His Gly Ala Thr Ser Pro Thr Arg Leu Ala Ala Phe Leu Ile Glu Phe
 340 345 350
 Leu Thr Glu Pro Gly Asp Leu Val Val Asp Pro Phe Ala Gly Leu His
 355 360 365
 Lys Val Pro Ile Ala Ala Glu Arg Leu Gly Arg Arg Trp Leu Ala Thr
 370 375 380

Asp Lys Ile Met Glu Trp Leu Ala Ile Ser Arg Asn Leu Phe Thr Ala
 385 390 395 400
 Ala Pro Gly Tyr Lys Ser Asn Pro Met Leu Asp Glu Leu Ala Glu Leu
 405 410 415
 Tyr Arg Ala
 420

<210> 6409

<211> 272

<212> PRT

<213> Enterobacter cloacae

<400> 6409

Cys Gly Thr Ile Lys Asn Gly Gly Trp Pro Val Ser Tyr Ser Ile Lys
 1 5 10 15
 Ile Gly Lys His Ser Ile Glu Leu Ala Gly Tyr Ala Gly Lys Val Val
 20 25 30
 Ala Pro Asn Thr Gln Met Ala Ala Leu Phe Arg Gly Met Ala Gly Glu
 35 40 45
 Leu Thr Asn Leu Arg Thr Thr Ala Gln Gln Ala Glu Ala Glu Ala Asp
 50 55 60
 Leu Leu Asp Val Ile Arg Asn Asp Pro Asp Leu Asn Glu Gln Ala Lys
 65 70 75 80
 Asn Arg Arg Ala Gly Glu Ala Arg Asn Pro Asp Thr Leu Lys Asp Phe
 85 90 95
 Thr Arg Gly Val Ala Ala Val Ser Glu Gln Ala Ala Asn Ile Leu Asp
 100 105 110
 Tyr Leu Lys Asn Arg Leu Ala Pro Val Asn Pro Leu Ala Pro Asp Asp
 115 120 125
 Val Gln Gly Phe Met Arg Asp Ser Glu Met Arg Gln Ala Phe Ala Arg
 130 135 140
 Leu Asp Arg Arg Ser Gln Glu Lys Met Leu Leu Ser Met His Ser Gly
 145 150 155 160
 Lys His Gln Glu Leu Ala Asp Ala Leu Leu Arg Ala His Ala Val Cys
 165 170 175
 Ser Gly Leu Asp Thr Glu Gln Leu Lys Arg Leu Gly Phe Ser Arg Ile
 180 185 190
 Ala Ser Glu Asn Gly Gln Val Ile Ser Ala Val Ala Asp Leu Val Asp
 195 200 205
 Ala Val Arg Lys Asp Val Thr Gln Ile Thr Ala Val Arg Thr Trp Tyr
 210 215 220
 Asn Asn Leu Val Tyr Gly Lys Asn Asp Asp Pro Ser Glu Val Leu Pro
 225 230 235 240
 Arg Met Thr Gly Leu Asp Gln Leu Ser Glu His Val Ser Ala Met Leu
 245 250 255
 Lys Gly Ser Gln Arg Gln Thr His Ser Glu Glu Lys Gln Ala Ala
 260 265 270

<210> 6410

<211> 195

<212> PRT

<213> Enterobacter cloacae

<400> 6410

Pro Gly Lys Thr Asn Met Thr Ile Lys Asn Ala Arg Ala Gly Gln Gly
 1 5 10 15
 Phe Ala His Pro Glu Asn Ser Ser Asp Ile Ser Val Ile Lys Phe
 20 25 30
 Glu Asp Ala Lys Val Arg Ile Val Lys Ile Leu Gly Glu Pro Trp Phe
 35 40 45
 Val Ala Ala Asp Val Cys Ala Ala Leu Glu Ile Ala Asp His Lys Val

50		55		60	
Ala	Leu	Arg	Arg	Leu	Asp
65				70	Asp
Thr	Pro	Gly	Gly	Lys	Gln
				85	Thr
Tyr	Lys	Leu	Ile	Ser	Arg
				100	Ser
Ala	His	His	Phe	Ser	Asn
				115	Trp
Arg	Lys	Thr	Gly	Phe	Tyr
				130	Gly
Ser	Arg	Arg	Met	Ala	Ala
145				150	Tyr
Lys	Leu	Gln	Gln	Cys	Lys
				165	Gly
Ile	Gln	Leu	Trp	Leu	Lys
				180	Tyr
Asp	Glu				Gln
					185
					190
					195

<210> 6411

<211> 627

<212> PRT

<213> Enterobacter cloacae

<400> 6411

Ile	Cys	Phe	Phe	Arg	Ala	Gly	Arg	Arg	Arg	Lys	Arg	Tyr	Arg	Ser	Asp
1				5					10					15	
Tyr	Ala	Gly	Thr	Gly	His	Arg	Thr	Asn	Ser	Gly	Tyr	Ala	Gly	Asn	His
				20				25					30		
Gln	Gly	Ala	Arg	Glu	Gln	Lys	Met	Lys	Asn	Ala	Pro	Asn	Leu	Lys	Lys
				35				40				45			
Gln	Pro	Ala	Asp	Leu	Met	Glu	Glu	Ser	Ile	Ile	Phe	Ala	Gly	Ala	Asp
				50				55			60				
Ala	Trp	Thr	Phe	Ala	Lys	Ala	Trp	Gln	Glu	Met	Asn	Pro	Ile	Gly	Asp
65				70					75					80	
Thr	Val	Pro	Pro	Val	Val	Leu	Asp	Lys	Lys	Gln	Leu	Ala	Glu	Leu	Glu
				85					90					95	
Asn	Ile	Arg	Ile	Val	Asp	Asp	Gly	Arg	Leu	Tyr	Ala	Arg	Val	Cys	Arg
				100				105					110		
Gly	Gly	His	Leu	Thr	Glu	Arg	Gln	Ile	Thr	Ile	Leu	Ala	Thr	Lys	Leu
				115				120				125			
Ala	Val	Ala	Gly	Val	Glu	Arg	Ala	Gln	Phe	Tyr	Ser	Glu	Gly	Tyr	Gln
				130				135				140			
Leu	Leu	Glu	Asp	Trp	Thr	Pro	Gln	Leu	Pro	Arg	Leu	Lys	Ala	Asp	Ala
145				150					155					160	
Gln	Ala	Gly	Lys	Ser	Met	Val	Ile	Gly	Lys	Pro	Leu	Thr	Asp	Val	Asn
				165					170					175	
Leu	Arg	Asp	Leu	Ala	Asp	Asn	Glu	Lys	Ala	Leu	Ile	Leu	Ala	Ala	Arg
				180				185					190		
Tyr	Thr	Gly	Ile	Ala	Ile	Asn	Glu	Asn	Asn	Glu	Gly	Val	Tyr	Val	Tyr
				195			200					205			
Arg	Ala	Gly	Ile	Trp	Glu	Lys	Thr	Ser	Leu	Leu	Glu	Leu	Ser	Arg	Glu
				210			215				220				
Met	Val	Ala	Ile	Tyr	Asn	Glu	Asn	Lys	Thr	Asn	Phe	Ser	Lys	Arg	Ala
225				230					235					240	
Ile	Asn	Asn	Val	Ile	Asp	Ala	Leu	Lys	Ile	Val	Ile	Pro	Val	Met	Gly
				245					250					255	
Glu	Pro	Arg	Arg	Ser	Leu	Ile	Pro	Phe	Ala	Asn	Gly	Val	Tyr	Asp	Met
				260				265				270			
Glu	Thr	Gly	Val	Phe	Ser	Glu	His	Ser	Gln	Asp	Asn	Trp	Leu	Thr	Asn

	275		280		285	
His	Asn Gly Val Ser Tyr Thr	Pro Ala Val Pro Gly Glu Asn Leu Arg				
290		295		300		
Asp	His Ala Pro Asn Phe	His Lys Trp Leu Ser Tyr Ala Ser Asp Arg				
305		310		315		320
Asp	Ala Ile Lys Met Gln Arg	Ile Ala Ala Ala Leu Phe Met Val Leu				
	325		330		335	
Ala	Asn Arg Tyr Asp Trp Gln Leu Phe Leu Glu Ile Thr Gly Glu Gly					
	340		345		350	
Gly	Ser Gly Lys Ser Val Phe Thr His Ile Ala Thr Met Leu Ala Gly					
	355		360		365	
Ala	His Asn Thr Ala Ser Gly Asn Met Ala Ala Leu Asp Ser Ala Arg					
	370		375		380	
Gly	Arg Ala Gln Phe Val Gly Lys Ser Met Ile Thr Leu Pro Asp Gln					
385		390		395		400
Pro	Lys Tyr Ser Gly Glu Gly Thr Gly Ile Lys Ala Ile Thr Gly Gly					
	405		410		415	
Asp	Ala Val Glu Ile Asp Pro Lys His Glu His Gln Tyr Thr Ala Val					
	420		425		430	
Leu	Arg Ala Val Val Val Ala Thr Asn Asn Thr Pro Met Ile Phe Thr					
	435		440		445	
Glu	Arg Ala Gly Gly Val Ser Arg Arg Arg Val Ile Phe Gln Phe Asn					
	450		455		460	
Arg	Arg Val Ser Glu Glu Asp Lys Asp Pro Asp Leu Ala Glu Lys Ile					
465		470		475		480
Ser	Ala Glu Ile Pro Val Val Val Arg Arg Leu Leu Ala Asn Phe Ala					
	485		490		495	
Asn	Pro Glu Lys Ala Arg Ala Leu Leu Leu Glu Gln Arg Asn Ser Glu					
	500		505		510	
Glu	Ala Leu Glu Val Lys Gln Lys Thr Asp Pro Leu Tyr Ala Phe Cys					
	515		520		525	
Ala	His Leu Glu Arg Leu Ala Asp Cys Ala Gly Met Met Val Gly Asn					
	530		535		540	
Arg	Asn Pro Pro His Tyr Pro Arg Ile Tyr Leu Tyr His Ala Tyr Leu					
545		550		555		560
Ala	Phe Leu Glu Ala Asn Gly Phe Asp Lys Pro Leu Thr Leu Asn Lys					
	565		570		575	
Phe	Ala Glu Gly Met Glu Ser Ala Met Arg Glu Phe Asn His Glu Tyr					
	580		585		590	
Arg	Lys Glu Arg Arg Ala Arg Gly Met Val Thr Asn Val Glu Leu Ser					
	595		600		605	
Glu	Ser Ala Glu Asp Trp Leu Pro Gln Thr His Pro Val Ala Gly His					
	610		615		620	
Lys	Glu					
625						

<210> 6412

<211> 131

<212> PRT

<213> Enterobacter cloacae

<400> 6412

Lys	Thr	Gln	Tyr	Leu	Phe	Phe	Glu	Asp	Tyr	Ala	Leu	Ile	Asp	Leu	Trp
1				5					10					15	
Leu	Lys	Ser	Lys	Arg	Phe	Phe	Phe	Glu	Glu	Lys	Leu	Leu	Phe	Tyr	Tyr
			20					25					30		
Leu	Ser	Arg	Leu	Lys	Asn	Arg	Leu	Phe	Thr	Leu	Ser	Ser	Ser	Thr	Arg
		35					40				45				
Val	Tyr	Leu	Ser	Ala	Phe	Arg	Asn	Lys	Gly	Val	Asn	Met	Ser	Lys	Ala
	50					55					60				
Leu	Ile	Arg	Leu	Pro	Glu	Val	Gln	Arg	Arg	Thr	Gly	Tyr	Ser	Lys	Ala

65					70					75					80
Trp	Ile	Tyr	Arg	Leu	Leu	Lys	Glu	Arg	Lys	Phe	Pro	Gln	Ser	Val	Lys
				85					90					95	
Ile	Gly	Ser	Arg	Ser	Ile	Ala	Phe	Val	Glu	Ser	Glu	Ile	Asp	Ala	Trp
			100					105					110		
Ile	Thr	Gln	Arg	Ile	Glu	Glu	Arg	Asp	Ala	Leu	Leu	Val	Arg	Arg	Pro
		115					120					125			
Gln	Leu														
	130														

<210> 6413

<211> 325

<212> PRT

<213> Enterobacter cloacae

<400> 6413

Pro	Leu	Tyr	Lys	Val	Tyr	Phe	Gly	Asp	Phe	His	Cys	Phe	Glu	Pro	Val
1				5					10					15	
Met	Lys	Leu	Ile	Arg	Gly	Ile	His	Asn	Leu	Ser	Gln	Ala	Pro	His	Gly
			20					25					30		
Cys	Val	Leu	Thr	Ile	Gly	Asn	Phe	Asp	Gly	Val	His	Arg	Gly	His	Gln
	35						40					45			
Ala	Leu	Leu	Gln	Gly	Leu	Arg	Lys	Glu	Gly	Glu	Ala	Arg	Gly	Leu	Pro
	50					55					60				
Val	Val	Val	Met	Ile	Phe	Glu	Pro	Gln	Pro	Leu	Glu	Leu	Phe	Ala	Gly
65					70					75				80	
Glu	Lys	Ser	Pro	Ala	Arg	Leu	Thr	Arg	Leu	Arg	Glu	Lys	Leu	Arg	Tyr
				85				90					95		
Leu	Ala	Glu	Ser	Gly	Val	Asp	Tyr	Val	Leu	Cys	Val	Arg	Phe	Asp	Arg
		100					105						110		
Arg	Phe	Ala	Ala	Leu	Thr	Ala	Gln	Asn	Phe	Val	Ser	Asp	Leu	Leu	Val
		115					120					125			
Arg	Gln	Leu	Gly	Val	Gln	Phe	Leu	Ala	Val	Gly	Asp	Asp	Phe	Arg	Phe
	130					135					140				
Gly	Ala	Gly	Arg	Gln	Gly	Asp	Phe	Leu	Leu	Leu	Gln	Lys	Ala	Gly	Leu
145				150					155					160	
Glu	Tyr	Gly	Phe	Asp	Val	Thr	Ser	Thr	Met	Thr	Phe	Cys	Glu	Gly	Gly
			165					170					175		
Val	Arg	Val	Ser	Ser	Thr	Ala	Val	Arg	Gln	Ala	Leu	Ala	Asn	Asp	Glu
			180					185					190		
Leu	Asp	Thr	Ala	Glu	Thr	Leu	Leu	Gly	His	Pro	Phe	Thr	Ile	Ser	Gly
	195					200					205				
Arg	Val	Val	His	Gly	Asp	Ala	Leu	Gly	Arg	Thr	Ile	Gly	Phe	Pro	Thr
	210				215					220					
Ala	Asn	Ile	Pro	Leu	Arg	Arg	Gln	Val	Ser	Pro	Val	Lys	Gly	Val	Tyr
225					230				235					240	
Ala	Val	Glu	Val	Ala	Gly	Leu	Gly	Glu	Lys	Pro	Phe	Tyr	Gly	Val	Ala
			245					250						255	
Asn	Ile	Gly	Thr	Arg	Pro	Thr	Val	Ala	Gly	Val	Arg	Gln	Gln	Leu	Glu
			260				265						270		
Val	His	Leu	Leu	Asp	Val	Val	Met	Asp	Leu	Tyr	Gly	Arg	His	Ile	Asp
		275				280						285			
Val	Ile	Leu	His	Lys	Lys	Ile	Arg	Asn	Glu	Gln	Arg	Phe	Ala	Ser	Leu
	290					295					300				
Asp	Glu	Leu	Lys	Ala	Gln	Ile	Ala	Arg	Asp	Glu	Leu	Thr	Ala	Arg	Glu
305					310				315						320
Phe	Phe	Gly	Leu												
					325										

<210> 6414

<211> 954

<212> PRT

<213> Enterobacter cloacae

<400> 6414

Asn	Arg	Leu	Asn	Cys	Leu	Arg	Asp	Lys	Tyr	Gly	Thr	Glu	Asn	Leu	Met
1				5					10					15	
Ser	Asp	Tyr	Lys	Ser	Thr	Leu	Asn	Leu	Pro	Glu	Thr	Gly	Phe	Pro	Met
			20					25					30		
Arg	Gly	Asp	Leu	Ala	Lys	Arg	Glu	Pro	Gly	Met	Leu	Ala	Arg	Trp	Thr
		35					40					45			
Asp	Asp	Asp	Leu	Tyr	Gly	Ile	Ile	Arg	Ala	Ala	Lys	Lys	Gly	Lys	Lys
	50					55					60				
Thr	Phe	Ile	Leu	His	Asp	Gly	Pro	Pro	Tyr	Ala	Asn	Gly	Ser	Ile	His
65				70						75					80
Ile	Gly	His	Ser	Val	Asn	Lys	Ile	Leu	Lys	Asp	Ile	Ile	Val	Lys	Ser
			85						90					95	
Lys	Gly	Leu	Ala	Gly	Tyr	Asp	Ser	Pro	Tyr	Val	Pro	Gly	Trp	Asp	Cys
			100					105					110		
His	Gly	Leu	Pro	Ile	Glu	Leu	Lys	Val	Glu	Gln	Glu	Tyr	Gly	Lys	Pro
		115					120					125			
Gly	Glu	Lys	Phe	Thr	Ala	Ala	Glu	Phe	Arg	Ala	Lys	Cys	Arg	Glu	Tyr
	130					135					140				
Ala	Ala	Thr	Gln	Val	Asp	Gly	Gln	Arg	Ala	Asp	Phe	Ile	Arg	Leu	Gly
145				150						155					160
Val	Leu	Gly	Asp	Trp	Ser	His	Pro	Tyr	Leu	Thr	Met	Asp	Phe	Lys	Thr
			165						170					175	
Glu	Ala	Asn	Ile	Ile	Arg	Ala	Leu	Gly	Lys	Ile	Ile	Gly	Asn	Gly	His
		180						185					190		
Leu	His	Lys	Gly	Ala	Lys	Pro	Val	His	Trp	Cys	Val	Asp	Cys	Arg	Ser
		195					200					205			
Ala	Leu	Ala	Glu	Ala	Glu	Val	Glu	Tyr	Tyr	Asp	Lys	Thr	Ser	Pro	Ser
	210					215					220				
Ile	Asp	Val	Ala	Phe	Glu	Ala	Val	Asp	Gln	Asp	Ser	Ile	Lys	Ala	Lys
225					230					235					240
Phe	Gly	Leu	Pro	Gly	Val	Ser	Gly	Pro	Val	Ser	Leu	Val	Ile	Trp	Thr
			245						250					255	
Thr	Thr	Pro	Trp	Thr	Leu	Pro	Ala	Asn	Arg	Ala	Ile	Ser	Leu	Ser	Gly
		260						265					270		
Glu	Phe	Glu	Tyr	Ala	Leu	Val	Gln	Ile	Asp	Gly	Arg	Ala	Val	Ile	Leu
		275					280					285			
Ala	Lys	Asp	Leu	Val	Glu	Ser	Val	Leu	Lys	Arg	Ala	Asn	Ile	Thr	Asp
	290					295					300				
Tyr	Thr	Val	Leu	Gly	Thr	Val	Lys	Gly	Asp	Ala	Leu	Glu	Leu	Met	Arg
305					310					315					320
Phe	Lys	His	Pro	Phe	Leu	Asp	Phe	Asp	Val	Pro	Ala	Ile	Leu	Gly	Asp
			325						330					335	
His	Val	Thr	Leu	Asp	Ala	Gly	Thr	Gly	Ala	Val	His	Thr	Ala	Gly	Gly
			340					345					350		
His	Gly	Pro	Asp	Asp	Tyr	Asn	Ile	Ser	Leu	Lys	Tyr	Gly	Leu	Glu	Ile
		355					360					365			
Ala	Asn	Pro	Val	Gly	Pro	Asp	Gly	Ser	Tyr	Leu	Pro	Gly	Thr	Tyr	Pro
	370					375					380				
Ala	Leu	Asp	Gly	Ile	Asn	Val	Phe	Lys	Ala	Asn	Asp	Ile	Ile	Val	Asp
385					390					395					400
Met	Leu	Arg	Thr	Ser	Gly	Ala	Leu	Leu	His	Val	Glu	Lys	Met	Gln	His
			405						410					415	
Ser	Tyr	Pro	Cys	Trp	Arg	His	Lys	Thr	Pro	Ile	Ile	Phe	Arg	Ala	
		420					425					430			
Thr	Pro	Gln	Trp	Phe	Val	Ser	Met	Asp	Gln	Lys	Gly	Leu	Arg	Glu	Gln
		435					440					445			
Ser	Leu	Lys	Glu	Ile	Lys	Gly	Val	Gln	Trp	Ile	Pro	Asp	Trp	Gly	Gln

450	455	460
Ala Arg Ile Glu Ser Met Val Ala Asn Arg Pro Asp Trp Cys Ile Ser		
465	470	475
Arg Gln Arg Thr Trp Gly Val Pro Met Ser Leu Phe Val His Lys Glu		
	485	490
Thr Gln Glu Leu His Pro Asn Thr Leu Glu Leu Met Glu Glu Val Ala		
	500	505
Lys Arg Val Glu Val Asp Gly Ile Gln Ala Trp Trp Asp Leu Asp Ala		
	515	520
Arg Asp Ile Leu Gly Ala Asp Ala Asp Asn Tyr Glu Lys Val Pro Asp		
	530	535
Thr Leu Asp Val Trp Phe Asp Ser Gly Ser Thr His Ala Ser Val Val		
545	550	555
Asp Val Arg Pro Glu Phe Ala Gly His Ala Ala Asp Met Tyr Leu Glu		
	565	570
Gly Ser Asp Gln His Arg Gly Trp Phe Met Ser Ser Leu Met Ile Ser		
	580	585
Thr Ala Met Lys Gly Lys Ala Pro Tyr Arg Gln Val Leu Thr His Gly		
	595	600
Phe Thr Val Asp Gly Gln Gly Arg Lys Met Ser Lys Ser Ile Gly Asn		
	610	615
Thr Val Ser Pro Gln Asp Val Met Asn Lys Leu Gly Ala Asp Ile Leu		
625	630	635
Arg Leu Trp Val Ala Ser Thr Asp Tyr Thr Gly Glu Met Ala Val Ser		
	645	650
Asp Glu Ile Leu Lys Arg Ala Ala Asp Ser Tyr Arg Arg Ile Arg Asn		
	660	665
Thr Ala Arg Phe Leu Leu Ala Asn Leu Asn Gly Phe Asp Pro Val Lys		
	675	680
Asp Met Val Lys Pro Glu Glu Met Val Val Leu Asp Arg Trp Ala Val		
	690	695
Gly Cys Ala Lys Ala Ala Gln Glu Asp Ile Leu Lys Ala Tyr Glu Ser		
705	710	715
Tyr Asp Phe His Glu Val Val Gln Arg Leu Met Arg Phe Cys Ser Ile		
	725	730
Glu Met Gly Ser Phe Tyr Leu Asp Ile Ile Lys Asp Arg Gln Tyr Thr		
	740	745
Ala Lys Ala Asp Ser Val Ala Arg Arg Ser Cys Gln Ser Ala Leu Tyr		
	755	760
His Ile Ala Glu Ala Leu Val Arg Trp Met Ala Pro Ile Met Ser Phe		
	770	775
Thr Ala Asp Glu Ile Trp Gly Tyr Leu Pro Gly Asp Arg Glu Lys Tyr		
785	790	795
Val Phe Thr Gly Glu Trp Tyr Glu Gly Leu Phe Asp Leu Ser Ser Thr		
	805	810
Glu Ala Met Asn Asp Ala Tyr Trp Asp Glu Leu Leu Lys Val Arg Gly		
	820	825
Glu Val Asn Lys Val Ile Glu Gln Ala Arg Ala Asp Lys Lys Val Gly		
	835	840
Gly Ser Leu Glu Ala Thr Val Thr Leu Tyr Ala Glu Pro Glu Leu Ala		
	850	855
Ala Lys Leu Thr Ala Leu Gly Asp Glu Leu Arg Phe Val Leu Leu Thr		
865	870	875
Ser Gly Ala Lys Val Ala Asp Tyr Ala Glu Ala Ser Ala Asp Ala Gln		
	885	890
Gln Ser Glu Leu Leu Lys Gly Leu Lys Val Ala Leu Ser Lys Ala Asp		
	900	905
Gly Glu Lys Cys Pro Arg Cys Trp His Tyr Thr Thr Asp Val Gly Gln		
	915	920
Val Ala Glu His Ala Asp Ile Cys Gly Arg Cys Val Ser Asn Val Ala		
930	935	940

Gly Asp Gly Glu Lys Arg Lys Phe Ala
945 950

<210> 6415

<211> 183

<212> PRT

<213> Enterobacter cloacae

<400> 6415

Arg	Val	Ala	Ile	Pro	Ala	Tyr	Arg	Ile	Cys	Gly	Pro	Arg	Arg	Pro	Gly
1				5					10					15	
Lys	Arg	Ser	Ala	Thr	Gly	Gln	Gln	Val	Thr	Gln	Asn	Lys	Arg	Ala	Ile
			20					25					30		
Cys	Met	Ser	Lys	Ser	Val	Gln	Ser	Asn	Ser	Ala	Val	Leu	Val	His	Phe
		35					40					45			
Thr	Leu	Lys	Leu	Asp	Asp	Gly	Ser	Thr	Ala	Glu	Ser	Thr	Arg	Asn	Asn
	50					55					60				
Gly	Lys	Pro	Ala	Leu	Phe	Arg	Leu	Gly	Asp	Thr	Ser	Leu	Ser	Glu	Gly
65					70				75					80	
Leu	Glu	Gln	Gln	Leu	Gly	Leu	Lys	Glu	Gly	Glu	Lys	Lys	Ala	Phe	
				85				90					95		
Ser	Leu	Glu	Pro	Asp	Ala	Ala	Phe	Gly	Val	Pro	Ser	Pro	Asp	Leu	Ile
			100					105					110		
Gln	Tyr	Phe	Ser	Arg	Arg	Glu	Phe	Met	Asp	Ala	Gly	Glu	Pro	Glu	Ile
		115					120					125			
Gly	Ala	Ile	Met	Leu	Phe	Thr	Ala	Met	Asp	Gly	Ser	Glu	Met	Pro	Gly
		130				135					140				
Val	Ile	Arg	Glu	Ile	Asn	Gly	Asp	Ser	Ile	Thr	Val	Asp	Phe	Asn	His
145					150				155					160	
Pro	Leu	Ala	Gly	Arg	Thr	Val	His	Phe	Asp	Val	Glu	Val	Leu	Glu	Ile
				165					170					175	
Asp	Pro	Ala	Leu	Glu	Ala										
			180												

<210> 6416

<211> 170

<212> PRT

<213> Enterobacter cloacae

<400> 6416

Val	Cys	Leu	Met	Ser	Lys	Thr	Leu	Cys	Ser	Thr	Gly	Leu	Arg	Trp	Leu
1				5					10					15	
Trp	Leu	Val	Val	Val	Val	Leu	Ile	Ile	Asp	Leu	Gly	Ser	Lys	Phe	Leu
			20					25					30		
Ile	Leu	Gln	Asn	Phe	Ala	Leu	Gly	Asp	Thr	Val	Pro	Leu	Phe	Pro	Ser
		35					40					45			
Leu	Asn	Leu	His	Tyr	Ala	Arg	Asn	Tyr	Gly	Ala	Ala	Phe	Ser	Phe	Leu
	50					55				60					
Ala	Asp	Ser	Gly	Gly	Trp	Gln	Arg	Trp	Phe	Phe	Ala	Gly	Ile	Ala	Ile
65					70				75					80	
Gly	Ile	Cys	Val	Val	Leu	Ala	Val	Leu	Met	Tyr	Arg	Ser	Lys	Ala	Thr
			85					90					95		
Gln	Lys	Leu	Asn	Asn	Ile	Ala	Tyr	Ala	Leu	Ile	Ile	Gly	Gly	Ala	Leu
			100					105					110		
Gly	Asn	Leu	Phe	Asp	Arg	Leu	Trp	His	Gly	Phe	Val	Val	Asp	Met	Ile
	115						120					125			
Asp	Phe	Tyr	Val	Gly	Asp	Trp	His	Phe	Ala	Thr	Phe	Asn	Leu	Ala	Asp
	130				135						140				
Ser	Ala	Ile	Cys	Val	Gly	Ala	Ala	Leu	Ile	Val	Leu	Glu	Gly	Phe	Leu
145					150				155					160	
Pro	Lys	Pro	Ala	Ala	Lys	Glu	Gln	Ala							

165

170

<210> 6417

<211> 329

<212> PRT

<213> Enterobacter cloacae

<400> 6417

Lys Cys Trp Arg Ser Ile Arg His Trp Arg Pro Glu Met Gln Ile Leu
 1 5 10 15
 Leu Ala Asn Pro Arg Gly Phe Cys Ala Gly Val Asp Arg Ala Ile Ser
 20 25 30
 Ile Val Glu Asn Ala Leu Glu Ile Tyr Gly Ala Pro Ile Tyr Val Arg
 35 40 45
 His Glu Val Val His Asn Arg Tyr Val Val Asp Ser Leu Arg Glu Arg
 50 55 60
 Gly Ala Ile Phe Ile Glu Gln Ile Ser Glu Val Pro Asp Gly Ala Ile
 65 70 75 80
 Leu Ile Phe Ser Ala His Gly Val Ser Gln Ala Val Arg Asn Glu Ala
 85 90 95
 Lys Asn Arg Asp Leu Thr Val Phe Asp Ala Thr Cys Pro Leu Val Thr
 100 105 110
 Lys Val His Met Glu Val Ala Arg Ala Ser Arg Arg Gly Glu Glu Ser
 115 120 125
 Ile Leu Ile Gly His Ala Gly His Pro Glu Val Glu Gly Thr Met Gly
 130 135 140
 Gln Tyr Ser Asn Pro Glu Gly Gly Met Tyr Leu Val Glu Ser Pro Glu
 145 150 155 160
 Asp Val Phe Thr Leu Asn Val Lys Asn Glu Ala Arg Leu Ser Phe Met
 165 170 175
 Thr Gln Thr Thr Leu Ser Val Asp Asp Thr Ser Asp Val Ile Asp Ala
 180 185 190
 Leu Arg Gln Arg Phe Pro Lys Ile Val Gly Pro Arg Lys Asp Asp Ile
 195 200 205
 Cys Tyr Ala Thr Thr Asn Arg Gln Glu Ala Val Arg Ala Leu Ala Glu
 210 215 220
 Gln Ala Asp Val Val Leu Val Val Gly Ser Lys Asn Ser Ser Asn Ser
 225 230 235 240
 Asn Arg Leu Ala Glu Leu Ala Gln Arg Met Gly Lys Ala Ala Phe Leu
 245 250 255
 Ile Asp Asp Ala Thr Asp Ile Gln Glu Ala Trp Val Lys Asn Ala Val
 260 265 270
 Cys Val Gly Val Thr Ala Gly Ala Ser Ala Pro Asp Ile Leu Val Gln
 275 280 285
 Asn Val Ile Ala Arg Leu Gln Glu Leu Gly Gly Gly Glu Ala Val Pro
 290 295 300
 Leu Glu Gly Arg Glu Glu Asn Ile Val Phe Glu Val Pro Lys Glu Leu
 305 310 315 320
 Arg Ile Asp Ala Arg Glu Val Glu
 325

<210> 6418

<211> 128

<212> PRT

<213> Enterobacter cloacae

<400> 6418

Lys Met Thr Asn Arg Ala Ile Pro Leu Pro Asp Glu Gln Ala Thr Leu
 1 5 10 15
 Asp Leu Gly Lys Arg Val Ala Gln Ala Cys Gln Gly Ala Thr Val Ile
 20 25 30

Tyr	Leu	Tyr	Gly	Asp	Leu	Gly	Ala	Gly	Glu	Thr	Thr	Phe	Ser	Arg	Gly
		35					40					45			
Phe	Leu	Gln	Ala	Leu	Gly	His	Asn	Gly	Asn	Val	Lys	Ser	Pro	Thr	Tyr
	50					55					60				
Thr	Leu	Val	Glu	Thr	Tyr	Thr	Leu	Glu	Asn	Ile	Met	Val	Val	His	Phe
65					70					75					80
Asp	Leu	Tyr	Arg	Leu	Ala	Gly	Pro	Gly	Arg	Ala	Gly	Asn	Leu	Trp	Gly
				85					90					95	
Ser	Ala	Ile	Thr	Leu	Pro	Thr	Thr	Pro	Ser	Ala	Trp	Trp	Ser	Gly	Arg
			100					105					110		
Asn	Lys	Val	Arg	Val	Cys	Cys	Leu	Thr	Arg	Met	Ser	Lys	Phe	Thr	
		115					120					125			

<210> 6419

<211> 456

<212> PRT

<213> Enterobacter cloacae

<400> 6419

Pro	Val	Glu	Arg	Arg	Asp	Asn	Gly	Met	Ile	Asn	Arg	Val	Lys	Gly	Trp
1				5					10					15	
Val	Leu	Ala	Ala	Thr	Val	Leu	Leu	Cys	Ala	Gln	Val	Gly	Ala	Ala	Ser
			20					25					30		
Leu	Ser	Asp	Ile	Gln	Val	Ser	Asn	Gly	Asp	Ser	Gln	Ala	Arg	Ile	Thr
		35					40					45			
Phe	Ser	Phe	Met	Gly	Asp	Pro	Glu	Tyr	Ala	Phe	Ser	Gln	Ile	Asp	Ser
	50					55				60					
Arg	Ser	Val	Ala	Leu	Asp	Ile	Lys	Gln	Thr	Gly	Val	Ile	Gln	Gly	Leu
65					70				75						80
Pro	Leu	Gln	Phe	Ser	Gly	Asn	Asn	Leu	Val	Lys	Ser	Ile	Arg	Ser	Gly
				85				90						95	
Thr	Pro	Lys	Asp	Thr	Gln	Ser	Leu	Arg	Leu	Val	Val	Asp	Leu	Thr	Glu
			100				105						110		
Lys	Gly	Lys	Thr	Lys	Ala	Val	Lys	Gln	Gln	Asn	Gly	Ala	Asn	Tyr	Thr
		115					120					125			
Val	Val	Phe	Thr	Ile	Asn	Ala	Asp	Val	Pro	Pro	Pro	Pro	Pro	Pro	Pro
	130					135					140				
Ala	Pro	Val	Val	Ala	Lys	Arg	Val	Glu	Ala	Pro	Val	Tyr	Thr	Pro	Arg
145					150					155					160
Pro	Ser	Glu	Pro	Ala	Arg	Asn	Pro	Phe	Lys	Ser	Gln	Asn	Asp	Arg	Leu
				165				170						175	
Thr	Ala	Val	Thr	Ser	Ser	Asn	Thr	Val	Thr	Arg	Pro	Ala	Val	Ser	Ala
			180					185					190		
Arg	Arg	Thr	Pro	Val	Ser	Gly	Asp	Lys	Val	Ile	Ile	Ala	Ile	Asp	Ala
		195					200					205			
Gly	His	Gly	Gly	Gln	Asp	Pro	Gly	Ala	Ile	Gly	Pro	Gly	Gly	Thr	Arg
	210					215					220				
Glu	Lys	Asn	Val	Thr	Ile	Ala	Ile	Ala	Arg	Lys	Leu	Arg	Ala	Leu	Leu
225					230					235					240
Asn	Asp	Asp	Pro	Met	Phe	Lys	Gly	Val	Met	Thr	Arg	Asp	Gly	Asp	Tyr
				245					250					255	
Phe	Ile	Ser	Val	Met	Gly	Arg	Ser	Asp	Val	Ala	Arg	Lys	Gln	Asn	Ala
			260					265					270		
Asn	Phe	Leu	Val	Ser	Ile	His	Ala	Asp	Ala	Ala	Pro	Asn	Arg	Asn	Ala
		275					280					285			
Thr	Gly	Ala	Ser	Val	Trp	Val	Leu	Ser	Asn	Arg	Arg	Ala	Asn	Ser	Glu
	290					295					300				
Met	Ala	Asn	Trp	Leu	Glu	His	Glu	Lys	Gln	Ser	Glu	Leu	Leu	Gly	
305					310				315					320	
Gly	Ala	Gly	Asp	Val	Leu	Ala	Asn	Ser	Gln	Ala	Asp	Pro	Tyr	Leu	Ser
				325					330					335	

Gln Ala Val Leu Asp Leu Gln Phe Gly His Ser Gln Arg Val Gly Tyr
 340 345 350
 Asp Val Ala Thr Asn Val Leu Ser Gln Leu Gln Ser Ile Gly Ser Leu
 355 360 365
 His Lys Arg Arg Pro Glu His Ala Ser Leu Gly Val Leu Arg Ser Pro
 370 375 380
 Asp Ile Pro Ser Ile Leu Val Glu Thr Gly Phe Ile Ser Asn His Gly
 385 390 395 400
 Glu Glu Arg Leu Leu Gly Ser Asp Ser Tyr Gln Gln Gln Ile Ala Glu
 405 410 415
 Ala Ile Tyr Asn Gly Leu Arg Lys Tyr Phe Asp Ala His Pro Leu Gln
 420 425 430
 Ser Ala Pro Gln Gly Gly Ala Ala Gln Thr Ala Ser Ala Ala Leu Pro
 435 440 445
 Gly Glu Met Thr Ala Thr Asn
 450 455

<210> 6420

<211> 606

<212> PRT

<213> Enterobacter cloacae

<400> 6420

Gly Glu Phe Met Pro Ile Gln Val Leu Pro Pro Gln Leu Ala Asn Gln
 1 5 10 15
 Ile Ala Ala Gly Glu Val Val Glu Arg Pro Ala Ser Val Val Lys Glu
 20 25 30
 Leu Val Glu Asn Ser Leu Asp Ala Gly Ala Thr Arg Ile Asp Ile Asp
 35 40 45
 Ile Glu Arg Gly Gly Ala Lys Leu Ile Arg Ile Arg Asp Asn Gly Cys
 50 55 60
 Gly Ile Lys Lys Asp Glu Leu Ala Leu Ala Arg His Ala Thr
 65 70 75 80
 Ser Lys Ile Ala Ser Leu Asp Asp Leu Glu Ala Ile Ile Ser Leu Gly
 85 90 95
 Phe Arg Gly Glu Ala Leu Ala Ser Ile Ser Ser Val Ser Arg Leu Thr
 100 105 110
 Leu Thr Ser Arg Thr Ala Asp Gln Gln Glu Ala Trp Gln Ala Tyr Ala
 115 120 125
 Glu Gly Arg Asp Met Asp Val Thr Val Lys Pro Ala Ala His Pro Val
 130 135 140
 Gly Thr Thr Leu Glu Val Leu Asp Leu Phe Tyr Asn Thr Pro Ala Arg
 145 150 155 160
 Arg Lys Phe Met Arg Thr Glu Lys Thr Glu Phe Gly His Ile Asp Glu
 165 170 175
 Ile Ile Arg Arg Ile Ala Leu Ala Arg Phe Asp Val Thr Leu Asn Leu
 180 185 190
 Ser His Asn Gly Lys Val Met Arg Gln Tyr Arg Ala Val Ala Glu Gly
 195 200 205
 Gly Gln Lys Glu Arg Arg Leu Gly Ala Ile Cys Gly Thr Pro Phe Leu
 210 215 220
 Glu Lys Ala Leu Ala Ile Glu Trp Gln His Gly Asp Leu Ala Leu Arg
 225 230 235 240
 Gly Trp Val Ala Asp Pro Asn Ala Ser Ser Ala Ala Phe Ala Glu Ile
 245 250 255
 Gln Tyr Cys Tyr Val Asn Gly Arg Met Met Arg Asp Arg Leu Ile Asn
 260 265 270
 His Ala Ile Arg Gln Ala Cys Glu Asp Lys Leu Gly Ala Asp Gln Gln
 275 280 285
 Pro Ala Phe Val Leu Tyr Leu Glu Ile Asp Pro His Gln Val Asp Val
 290 295 300

Asn Val His Pro Ala Lys His Glu Val Arg Phe His Gln Ser Arg Leu
 305 310 315 320
 Val His Asp Phe Ile Tyr Gln Gly Val Ala Ala Val Leu Gln Gln
 325 330 335
 Ala Glu Pro Glu Leu Pro Leu Ala Lys Glu Glu Pro Ala Pro Arg Pro
 340 345 350
 Leu Pro Glu Asn Arg Val Ala Ala Gly Arg Asn His Phe Ala Glu Pro
 355 360 365
 Ala Val Ala Arg Glu Pro Ala Ala Pro Arg Leu Ser Pro Ala Gly Asn
 370 375 380
 Ala Pro Arg Pro Thr Gly Ala Asn Tyr Pro Asn Ala Gln Pro Gly Tyr
 385 390 395 400
 His Lys Gln Gln Gly Ala Leu Tyr Arg Lys Leu Leu Asp Thr Pro Ala
 405 410 415
 Val Glu His Lys Glu His Ile Thr Val Ser Thr Pro Ser Leu Asp Gly
 420 425 430
 His Ser Gln Ser Phe Gly Arg Val Leu Thr Ile Ile Ala Pro Asp Met
 435 440 445
 Ala Leu Leu Glu Arg Glu Gly Lys Leu Leu Leu Leu Ala Leu Ser Val
 450 455 460
 Ala Glu Arg Trp Leu Lys Gln Ala Gln Leu Thr Pro Gly Val Asn Ala
 465 470 475 480
 Ala Cys Ala Gln Pro Leu Leu Ile Pro Val Arg Leu Lys Ile Ser Pro
 485 490 495
 Glu Glu Thr Gly Val Leu Arg Arg Val Gln Thr Gln Leu Ala Glu Met
 500 505 510
 Gly Ile Glu Ile Val Leu Asp Ala Gln His Val Thr Ile Arg Ala Val
 515 520 525
 Pro Leu Pro Leu Arg Gln Gln Asn Leu Gln Asn Leu Ile Pro Glu Leu
 530 535 540
 Ile Gly Tyr Leu Ala Gln Gln Thr Thr Phe Asp Ala Ala Asp Thr Ala
 545 550 555 560
 Gln Trp Ile Ala Arg His Leu Ala Ser Glu His Ala Pro Trp Ser Met
 565 570 575
 Ala Gln Ala Ile Thr Val Leu Ala Glu Val Glu Arg Leu Cys Pro Gln
 580 585 590
 Leu Val Lys Ala Pro Ala Arg Trp Phe Val Thr Thr Cys
 595 600 605

<210> 6421

<211> 108

<212> PRT

<213> Enterobacter cloacae

<400> 6421

Gly Lys Asp Arg Met Ala Lys Gly Gln Ser Leu Gln Asp Pro Phe Leu
 1 5 10 15
 Asn Ala Leu Arg Arg Glu Arg Val Pro Val Ser Ile Tyr Leu Val Asn
 20 25 30
 Gly Ile Lys Leu Gln Gly Gln Ile Glu Ser Phe Asp Gln Phe Val Ile
 35 40 45
 Leu Leu Lys Asn Thr Val Ser Gln Met Val Tyr Lys His Ala Ile Ser
 50 55 60
 Thr Val Val Pro Ser Arg Pro Val Ser His His Ser Asn Asn Ala Gly
 65 70 75 80
 Gly Gly Thr Gly Ser Asn Tyr His His Gly Ser Asn Ala Gln Gly Ser
 85 90 95
 Ser Thr Pro Ala Gln Asp Ser Glu Glu Thr Glu
 100 105

<210> 6422

<211> 564
 <212> PRT
 <213> Enterobacter cloacae

<400> 6422

Arg	Ala	Ile	His	Ser	Ile	Ser	Pro	Trp	Tyr	Cys	Leu	Ser	Ser	His	Ala
1				5					10					15	
Trp	Ser	Leu	Gly	Ser	Leu	Ala	Glu	Arg	Ser	Val	Ser	Val	Ile	Pro	Thr
			20					25					30		
Phe	Trp	Lys	Pro	Ser	Ser	Ala	Pro	His	Cys	Phe	Ile	Phe	Cys	Ala	Asn
		35					40					45			
Ser	Leu	Arg	Ser	Arg	Gly	Cys	Asp	Met	Thr	Asp	His	Thr	Val	Lys	Lys
	50					55					60				
Asn	Leu	Ala	Ser	Ile	Pro	His	Ser	Ile	Trp	His	Ala	Asp	Asp	Leu	Arg
65				70						75					80
Arg	Ala	Glu	Lys	Glu	Ala	Ala	Asp	Ser	Leu	Gly	Ile	Thr	Leu	Tyr	Glu
				85					90					95	
Leu	Met	Gln	Arg	Ala	Gly	Glu	Ala	Ala	Phe	Asn	Val	Ala	Arg	Thr	Ala
				100				105					110		
Tyr	Pro	Asp	Ala	Ser	His	Tyr	Leu	Ile	Leu	Cys	Gly	His	Gly	Asn	Asn
		115					120					125			
Gly	Gly	Asp	Gly	Tyr	Val	Val	Ala	Arg	Leu	Ala	Val	Ala	Ala	Gly	Leu
	130					135					140				
Arg	Val	Thr	Leu	Met	Ala	Leu	Glu	Ser	Asp	Lys	Pro	Leu	Pro	Glu	Glu
145					150					155					160
Ala	Gly	Met	Ala	Arg	Glu	Ala	Trp	Leu	Asn	Ala	Gly	Gly	Ile	Ile	His
				165					170					175	
Ala	Pro	Asp	Ile	Ile	Trp	Pro	Glu	Asp	Val	Asp	Val	Ile	Val	Asp	Gly
			180					185					190		
Leu	Leu	Gly	Thr	Gly	Leu	Met	Arg	Ala	Pro	Arg	Asp	Asp	Val	Ala	Ala
	195						200					205			
Leu	Ile	Thr	Arg	Ala	Asn	Ala	His	Pro	Ala	Pro	Val	Val	Ala	Leu	Asp
	210				215						220				
Ile	Pro	Ser	Gly	Leu	Met	Ala	Gln	Thr	Gly	Ala	Thr	Pro	Gly	Val	Ser
225					230					235					240
Ile	Glu	Ala	Ala	His	Thr	Val	Thr	Phe	Ile	Ala	Leu	Lys	Pro	Gly	Leu
				245				250						255	
Leu	Thr	Gly	Lys	Ala	Arg	Asp	Val	Val	Gly	Thr	Leu	His	His	Asn	Ala
			260					265					270		
Leu	Gly	Leu	Glu	Asn	Trp	Leu	Ile	Gly	Gln	Asp	Thr	His	Ile	Thr	Arg
	275					280						285			
Phe	Asp	Ala	Ser	Gln	Leu	Ala	Gln	Trp	Leu	Pro	Pro	Arg	Arg	Pro	Thr
	290					295				300					
Ser	His	Lys	Gly	Asp	His	Gly	Arg	Leu	Leu	Ile	Ile	Gly	Gly	Asp	His
305					310					315				320	
Gly	Thr	Ala	Gly	Ala	Ile	Arg	Met	Thr	Gly	Glu	Ala	Ala	Leu	Arg	Ser
				325					330					335	
Gly	Gly	Gly	Leu	Ile	Arg	Val	Leu	Thr	Arg	Ser	Glu	Asn	Ile	Pro	Pro
			340					345					350		
Ile	Ile	Thr	Ala	Arg	Pro	Glu	Leu	Met	Val	His	Glu	Leu	Thr	Pro	Gln
		355					360					365			
Ala	Ile	Glu	Lys	Gly	Leu	Glu	Trp	Ala	Asp	Val	Val	Val	Ile	Gly	Pro
	370					375					380				
Gly	Leu	Gly	Gln	Gln	Glu	Trp	Gly	Lys	Gln	Ala	Leu	Gln	Lys	Ala	Glu
385					390					395					400
Asn	Phe	Arg	Lys	Pro	Met	Leu	Trp	Asp	Ala	Asp	Ala	Leu	Asn	Leu	Leu
				405					410					415	
Ala	Ile	Asn	Pro	Asp	Lys	Arg	His	Asn	Arg	Ile	Leu	Thr	Pro	His	Pro
			420					425					430		
Gly	Glu	Ala	Ala	Arg	Leu	Leu	Asn	Cys	Ser	Val	Ala	Glu	Ile	Glu	Ser
		435					440					445			

Asp Arg Leu Leu Ser Ala Gln Arg Leu Val Lys Arg Tyr Gly Gly Val
 450 455 460
 Ala Val Leu Lys Gly Ala Gly Thr Val Ile Ala Ser Asp Asp Ala Met
 465 470 475 480
 Gly Ile Val Asp Ala Gly Asn Ala Gly Met Ala Ser Gly Gly Met Gly
 485 490 495
 Asp Val Leu Ser Gly Ile Ile Gly Ala Leu Leu Gly Gln Lys Leu Pro
 500 505 510
 Leu Tyr Asp Ala Ala Cys Ala Gly Cys Val Ala His Gly Thr Ala Ala
 515 520 525
 Asp Arg Leu Ala Ala Arg Tyr Gly Thr Arg Gly Met Leu Ala Thr Asp
 530 535 540
 Leu Phe Cys Thr Leu Arg Arg Val Val Asn Pro Asp Val Ile Asp Val
 545 550 555 560
 Glu Asn Asp

<210> 6423

<211> 75

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (12)

<400> 6423

Phe Ile Ser Ser Cys Arg Thr Arg Lys Ser Arg Xaa Phe Met Gly Ile
 1 5 10 15
 Arg Asp Tyr Phe Ala Asn Asp Ala Ile Cys Leu Val Glu Trp Pro Gln
 20 25 30
 Gln Gly Ala Gly Val Leu Pro Asp Pro Asp Val Glu Ile His Leu Asp
 35 40 45
 Tyr Gln Ala Gln Gly Arg Glu Ala Arg Ile Ser Ala Val Ser Ser Ser
 50 55 60
 Gly Cys Ser Leu Leu Ala Arg Leu Ala Gly
 65 70 75

<210> 6424

<211> 318

<212> PRT

<213> Enterobacter cloacae

<400> 6424

Asn Met Thr Asp Val Ser Lys Ala Ser Leu Pro Lys Ala Ile Phe Leu
 1 5 10 15
 Met Gly Pro Thr Ala Ser Gly Lys Thr Ala Leu Ala Ile Glu Leu Arg
 20 25 30
 Lys Val Leu Pro Val Glu Leu Ile Ser Val Asp Ser Ala Leu Ile Tyr
 35 40 45
 Arg Gly Met Asp Ile Gly Thr Ala Lys Pro Asn Ala Asp Glu Leu Arg
 50 55 60
 Ala Ala Pro His Arg Leu Leu Asp Ile Leu Asp Pro Ala Gln Ala Tyr
 65 70 75 80
 Ser Ala Ala Asp Phe Arg Arg Asp Ala Leu Ala Glu Met Ala Glu Ile
 85 90 95
 Thr Ala Ala Gly Arg Ile Pro Leu Leu Val Gly Gly Thr Met Leu Tyr
 100 105 110
 Phe Lys Ala Leu Leu Glu Gly Leu Ser His Leu Pro Ser Ala Asp Pro
 115 120 125
 Glu Val Arg Ala Lys Ile Glu Arg Gln Ala Ala Glu Gln Gly Trp Asp

130	135	140
Val Leu His Arg Gln Leu Glu Glu Ile Asp Pro Val Ala Ala Ala Arg		
145	150	155
Ile His Pro Asn Asp Pro Gln Arg Leu Ser Arg Ala Leu Glu Val Phe		160
	165	170
Phe Ile Ser Gly Lys Thr Leu Thr Glu Leu Thr Gln Thr Ser Gly Asp		175
	180	185
Ala Leu Pro Tyr Gln Val His Gln Phe Ala Ile Ala Pro Ala Ser Arg		190
	195	200
Glu Leu Leu His Gln Arg Ile Glu Gln Arg Phe His Gln Met Leu Ala		205
	210	215
Ser Asp Phe Glu Ala Glu Val Arg Ala Leu Phe Ala Arg Gly Asp Leu		220
225	230	235
His Thr Asp Met Pro Ser Ile Arg Cys Val Gly Tyr Arg Gln Met Trp		240
	245	250
Ser Tyr Leu Glu Gly Glu Ile Ser Tyr Asp Glu Met Val Tyr Arg Gly		255
	260	265
Val Cys Ala Thr Arg Gln Leu Ala Lys Arg Gln Ile Thr Trp Leu Arg		270
	275	280
Gly Trp Lys Gly Val His Trp Leu Asp Ser Glu Lys Pro Gln Gln Ala		285
	290	295
Leu Asn Glu Val Ile Glu Val Ile Gly Asp Ile Ala Asp		300
305	310	315

<210> 6425

<211> 124

<212> PRT

<213> Enterobacter cloacae

<400> 6425

Arg Gly Leu Arg Leu Phe Asp Arg Tyr Asp Ala Gly Glu Gln Ala Val	
1	5
Leu Val His Ile Tyr Phe Ser Gln Asp Lys Asp Met Glu Asp Leu Gln	
	20
Glu Phe Glu Ser Leu Val Ser Ser Ala Gly Val Glu Ala Met Gln Val	
	35
Ile Thr Gly Ser Arg Lys Ala Pro His Pro Lys Tyr Phe Val Gly Glu	
	50
Gly Lys Ala Val Lys Ile Ala Asp Ala Val Lys Ala Thr Gly Ala Ser	
65	70
Val Val Leu Phe Asp His Ala Leu Ser Pro Ala Gln Glu Arg Asn Leu	
	85
Glu Ala Leu Cys Glu Cys Arg Val Ile Asp Arg Thr Gly Leu Ile Leu	
	100
Asp Ile Phe Ala Gln Arg Ala Arg Thr His Glu Gly	
	115
	120

<210> 6426

<211> 417

<212> PRT

<213> Enterobacter cloacae

<400> 6426

Arg Val Met Pro Arg Leu Ser Ala Ala Ser Phe Ser Ala Arg Arg Arg	
1	5
Ser Ser Ala Cys Gln Met Glu Cys Gly Ile Leu Ala Arg Phe Phe	
	20
Thr Val Trp Ser Val Met Ser Gln Pro Leu Asp Leu Asn Glu Leu Ala	
	35
Gln Lys Ile Lys Gln Trp Gly Ala Glu Leu Gly Phe Gln Lys Val Gly	
	50
	55
	60

Ile	Thr	Asp	Thr	Asp	Leu	Ser	Ala	Ser	Glu	Pro	Lys	Leu	Gln	Ala	Trp
65					70					75					80
Leu	Asp	Lys	Gln	Tyr	His	Gly	Glu	Met	Glu	Trp	Ile	Ala	Arg	His	Gly
				85					90					95	
Met	Met	Arg	Ala	Arg	Pro	His	Glu	Leu	Leu	Pro	Gly	Thr	Leu	Arg	Val
			100					105					110		
Ile	Ser	Val	Arg	Met	Asn	Tyr	Leu	Pro	Ala	Asn	Ala	Ala	Phe	Ala	Arg
		115					120					125			
Thr	Leu	Lys	Asn	Pro	Ser	Leu	Gly	Tyr	Val	Ser	Arg	Tyr	Ala	Leu	Gly
	130					135					140				
Arg	Asp	Tyr	His	Lys	Leu	Leu	Arg	Asn	Arg	Leu	Lys	Lys	Leu	Gly	Glu
145					150					155					160
Thr	Ile	Gln	Gln	His	Cys	Val	Ser	Leu	Asn	Phe	Arg	Pro	Phe	Val	Asp
				165					170					175	
Ser	Ala	Pro	Ile	Leu	Glu	Arg	Pro	Ile	Ala	Glu	Lys	Ala	Gly	Leu	Gly
			180					185					190		
Trp	Thr	Gly	Lys	His	Ser	Leu	Ile	Leu	Ser	Arg	Asp	Ala	Gly	Ser	Phe
		195				200						205			
Phe	Phe	Leu	Gly	Glu	Leu	Leu	Ile	Asp	Leu	Pro	Leu	Pro	Val	Asp	Ser
	210				215					220					
Pro	Val	Glu	Glu	Gly	Cys	Gly	Arg	Cys	Val	Ala	Cys	Met	Thr	Ile	Cys
225					230					235					240
Pro	Thr	Gly	Ala	Ile	Val	Glu	Pro	Tyr	Thr	Val	Asp	Ala	Arg	Arg	Cys
			245						250					255	
Ile	Ser	Tyr	Leu	Thr	Ile	Glu	Leu	Glu	Gly	Ala	Ile	Pro	Glu	Glu	Phe
			260					265					270		
Arg	Pro	Leu	Ile	Gly	Asn	Arg	Ile	Tyr	Gly	Cys	Asp	Asp	Cys	Gln	Leu
		275					280					285			
Ile	Cys	Pro	Trp	Asn	Arg	Tyr	Ser	Gln	Leu	Thr	Asp	Glu	Glu	Asp	Phe
	290					295					300				
Ser	Pro	Arg	Lys	Ala	Leu	His	Ala	Pro	Gln	Leu	Ile	Glu	Leu	Phe	Ala
					310					315					320
Trp	Ser	Glu	Ala	Trp	Phe	Leu	Lys	Val	Thr	Glu	Gly	Ser	Ala	Ile	Arg
			325						330					335	
Arg	Ile	Gly	His	Leu	Arg	Trp	Leu	Arg	Asn	Val	Ala	Val	Ala	Leu	Gly
			340					345					350		
Asn	Ala	Pro	Trp	Asp	Glu	Ala	Asn	Leu	Gln	Ala	Leu	Glu	Ser	Arg	Arg
		355					360					365			
Gly	Glu	His	Pro	Leu	Leu	Asp	Glu	His	Ile	Glu	Trp	Ala	Ile	Ala	Gln
	370					375					380				
Gln	Ile	Glu	Lys	Arg	Asn	Ala	Gly	Val	Val	Glu	Val	Gln	Leu	Pro	Lys
					390					395					400
Lys	Gln	Arg	Leu	Val	Arg	Val	Ile	Glu	Lys	Gly	Leu	Pro	Arg	Asp	Val
				405					410					415	

<210> 6427

<211> 91

<212> PRT

<213> Enterobacter cloacae

<400> 6427

Arg	Leu	Asp	Gly	Leu	Trp	Gln	Leu	Val	Gly	Phe	Tyr	Leu	Gly	Trp	Leu
1				5					10					15	
Gly	Gly	Glu	Gly	Lys	Gly	Arg	Ala	Leu	Gly	Val	Gly	Glu	Val	Lys	Phe
			20					25					30		
Thr	Gly	Gln	Val	Leu	Pro	Thr	Ala	Lys	Lys	Val	Thr	Tyr	Arg	Ile	His
		35					40					45			
Phe	Lys	Arg	Ile	Val	Asn	Arg	Arg	Leu	Ile	Met	Gly	Leu	Ala	Asp	Gly
	50					55					60				

Glu Val Leu Val Asp Gly Arg Leu Ile Tyr Thr Ala Asn Asp Leu Lys
 65 70 75 80
 Val Gly Leu Phe Gln Asp Thr Ser Ala Phe
 85 90

<210> 6428

<211> 150

<212> PRT

<213> Enterobacter cloacae

<400> 6428

Ile Gly Ile Val Ile Ala Arg Val Ser His Gln Leu Ala Ala Val Glu
 1 5 10 15
 Val Asp Asn Ala Arg Gly His Ile Ala Asp Glu Arg Thr Val Val Gly
 20 25 30
 Asp Glu Asp Asn Gly Ala Val Lys Gly Phe Gln Glu Pro Phe Gln Pro
 35 40 45
 Val Asn Arg Phe Asp Ile Gln Val Val Arg Arg Phe Val Gln Gln Gln
 50 55 60
 His Leu Arg Pro Ala His Gln Gly Thr Ala Gln Arg Arg Phe Thr Gln
 65 70 75 80
 Pro Ala Ala Gly Glu Arg Arg Gln Leu His Ile Arg Phe Gln Ala Lys
 85 90 95
 Leu Gly Gln His Phe Ile Asn Ala Val Phe Gln Leu Pro Gln Thr Val
 100 105 110
 Val Ile Glu His Leu Leu His Phe Cys Gln Leu Val Glu Ile Leu Val
 115 120 125
 Ala Arg Val Arg His Asp Gln Met Arg Asn Leu Val Val Thr Leu Glu
 130 135 140
 Val Phe Arg Leu Leu
 145 150

<210> 6429

<211> 105

<212> PRT

<213> Enterobacter cloacae

<400> 6429

Val Thr Ser Leu Pro Arg Ser Arg Ser Thr Met Arg Val Ala Ile Leu
 1 5 10 15
 Arg Met Asn Glu Arg Ser Trp Glu Met Lys Ile Met Val Pro Leu Lys
 20 25 30
 Val Phe Arg Asn Pro Ser Ser Gln Ser Ile Ala Ser Ile Ser Arg Trp
 35 40 45
 Phe Val Gly Ser Ser Ser Ser Thr Leu Gly Pro Leu Thr Arg Ala
 50 55 60
 Arg Pro Ser Ala Ala Leu Arg Ser Gln Pro Pro Glu Ser Ala Asp Ser
 65 70 75 80
 Ser Ile Ser Ala Ser Arg Pro Ser Trp Ala Ser Thr Ser Leu Met Arg
 85 90 95
 Phe Ser Ser Cys His Arg Pro Trp
 100 105

<210> 6430

<211> 419

<212> PRT

<213> Enterobacter cloacae

<400> 6430

Ser Met Cys Asp Gln His His Ala Asp Arg His Ile Leu Cys Ser Gln
 1 5 10 15

Cys Asp Met Leu Val Ala Leu Pro Glu Leu Gly His Gly His Lys Ala
 20 25 30
 Ala Cys Pro Arg Cys Gly Ala Thr Leu Thr Thr Glu Trp Asp Ala Pro
 35 40 45
 Arg Gln Arg Pro Thr Ala Tyr Ala Leu Ala Ala Leu Phe Met Leu Leu
 50 55 60
 Leu Ser Asn Leu Phe Pro Phe Ile Tyr Met Lys Val Gly Gly Met Thr
 65 70 75 80
 Ser Gln Val Asp Leu Leu Glu Ile Pro Gly Val Met Phe Ser Glu Asp
 85 90 95
 Tyr Ala Ser Leu Gly Thr Phe Phe Leu Leu Phe Val Gln Ile Val Pro
 100 105 110
 Ala Phe Cys Leu Val Val Ile Leu Leu Val Asn Arg Val Arg Met
 115 120 125
 Pro Thr Val Leu Lys Ile Lys Leu Ala Arg Ile Leu Phe Gln Leu Lys
 130 135 140
 Ser Trp Gly Met Ala Glu Ile Phe Leu Ala Gly Ile Leu Val Ser Phe
 145 150 155 160
 Val Lys Leu Met Ala Tyr Gly Asp Val Gly Ile Gly Ser Ser Phe Ile
 165 170 175
 Pro Trp Cys Leu Tyr Cys Val Leu Gln Leu Arg Ala Phe Gln Cys Val
 180 185 190
 Asp Arg Arg Trp Ala Trp Asp Asp Ile Ala Pro Ala Pro Thr Leu Ser
 195 200 205
 Gln Thr Val Lys Val Gly Val Pro Gly Ile Arg Gln Gly Leu Arg Ser
 210 215 220
 Cys Ser Cys Cys Thr Ala Val Leu Pro Ala Asp Val Glu Val Cys Pro
 225 230 235 240
 Arg Cys Glu Thr Lys Gly His Val Arg Arg Lys Asn Ser Leu Gln Trp
 245 250 255
 Thr Met Ala Leu Leu Val Thr Ser Val Met Leu Tyr Leu Pro Ala Asn
 260 265 270
 Ile Leu Pro Ile Met Ile Thr Asp Leu Leu Gly Asp Arg Met Pro Ser
 275 280 285
 Thr Ile Leu Ala Gly Val Ile Leu Leu Trp Ser Glu Gly Ser Tyr Pro
 290 295 300
 Val Ala Gly Val Ile Phe Leu Ala Ser Ile Met Val Pro Thr Leu Lys
 305 310 315 320
 Met Ile Ala Ile Ala Trp Leu Cys Trp Asp Ala Lys Gly His Gly Lys
 325 330 335
 Arg Asp Ser Glu Arg Met His Leu Ile Tyr Glu Val Val Glu Phe Val
 340 345 350
 Gly Arg Trp Ser Met Ile Asp Val Phe Val Ile Ala Val Leu Ser Ala
 355 360 365
 Leu Val Arg Met Gly Gly Leu Met Ser Ile Tyr Pro Ala Met Gly Ala
 370 375 380
 Leu Met Phe Ala Leu Val Ile Met Thr Met Phe Ala Ala Met Thr
 385 390 395 400
 Phe Asp Pro Arg Leu Ser Trp Asp Arg Glu Pro Asp Ser Ser His Glu
 405 410 415
 Glu Glu

<210> 6431

<211> 77

<212> PRT

<213> Enterobacter cloacae

<400> 6431

Pro Ser Thr Leu Val Tyr Arg Gly Ile Val Ser Pro Ile Gln Ala Met
 1 5 10 15

Arg	Lys	Ser	Lys	Ser	Met	Glu	Asn	Lys	Ser	Gly	Glu	Ala	Lys	Val	Gln
			20					25					30		
Lys	Val	Arg	Asn	Trp	Ser	Pro	Val	Trp	Ile	Phe	Pro	His	Arg	Asp	Arg
		35					40					45			
Ala	Asp	Arg	Cys	Met	Asp	Pro	Val	Leu	Ser	Leu	Gln	Pro	Ser	Gly	Thr
	50					55					60				
Gly	Ser	His	Ala	Asn	Tyr	His	Gln	Cys	Arg	Gly	Asp				
65					70					75					

<210> 6432

<211> 193

<212> PRT

<213> Enterobacter cloacae

<400> 6432

Glu	Gly	Glu	Thr	Met	Lys	Lys	Trp	Leu	Ile	Ile	Ala	Gly	Ala	Leu	Val
1				5					10					15	
Leu	Thr	Ala	Cys	Ser	Phe	Gly	Ser	Asp	Asn	Lys	Ser	Tyr	Tyr	Gln	Leu
			20					25					30		
Pro	Leu	Ser	Ala	Gln	Ser	Gly	Ala	Gln	Ser	Ser	Thr	Ser	Gln	Gly	Ser
		35					40					45			
Arg	Leu	Leu	Trp	Val	Glu	Gln	Val	Ala	Val	Pro	Asp	Tyr	Leu	Ala	Gly
	50					55					60				
Asn	Gly	Val	Val	Tyr	Gln	Thr	Ser	Asp	Val	Gln	Tyr	Val	Ile	Ala	Asn
65					70					75					80
Asn	Asn	Leu	Trp	Ala	Ser	Pro	Leu	Asp	Gln	Gln	Leu	Arg	Asn	Thr	Leu
				85					90					95	
Val	Ala	Asn	Leu	Ser	Ser	Gln	Leu	Pro	Gly	Trp	Val	Val	Ala	Ser	Gln
			100					105					110		
Pro	Leu	Gly	Ser	Asp	Gln	Asp	Thr	Leu	Asn	Val	Asn	Val	Thr	Gly	Phe
		115					120					125			
His	Gly	Arg	Tyr	Asp	Gly	Ala	Val	Val	Ile	Ser	Gly	Glu	Trp	Leu	Leu
	130					135					140				
Asn	His	Gln	Gly	Gln	Leu	Ile	Lys	Arg	Pro	Phe	His	Leu	Glu	Leu	Lys
145					150					155					160
Gln	Gln	Lys	Asp	Gly	Tyr	Asp	Glu	Met	Val	Lys	Val	Leu	Ala	Gln	Gly
			165					170						175	
Trp	Ala	Gln	Glu	Ser	Ala	Ala	Ile	Ala	Arg	Glu	Ile	Ser	Arg	Leu	Pro
			180					185					190		

<210> 6433

<211> 675

<212> PRT

<213> Enterobacter cloacae

<400> 6433

Arg	Val	Val	Gln	Gly	Gly	Val	His	Phe	Glu	Gly	Asp	Thr	Arg	Leu	Ile
1				5					10					15	
Tyr	Gln	Ser	Leu	Met	Trp	Ser	Arg	Leu	Ala	Ser	Arg	Ile	Met	Leu	Pro
			20					25					30		
Met	Lys	Glu	Cys	Lys	Val	Tyr	Ser	Asp	Leu	Asp	Leu	Tyr	Thr	Gly	Val
		35					40					45			
Gln	Met	Ile	Asp	Trp	Thr	Glu	Ile	Phe	Thr	Pro	Asp	Ala	Thr	Phe	Ala
	50					55					60				
Val	His	Phe	Asn	Gly	Val	Asn	Asp	Glu	Ile	Arg	Asn	Ser	Gln	Tyr	Gly
65					70					75					80
Ala	Leu	Arg	Val	Lys	Asp	Ala	Ile	Val	Asp	Cys	Phe	Thr	Arg	Arg	Asn
				85					90					95	
Lys	Glu	Arg	Pro	Asn	Val	Asp	Arg	Glu	Asn	Pro	Asp	Leu	Arg	Ile	Asn

			100					105						110		
Val	Trp	Leu	Asn	Gly	Asp	Thr	Ala	Ser	Ile	Ser	Leu	Asp	Leu	Ser	Gly	
		115					120					125				
Ala	Gly	Leu	His	Leu	Arg	Gly	Tyr	Arg	Asp	Arg	Thr	Gly	Met	Ala	Pro	
		130				135					140					
Ile	Lys	Glu	Thr	Leu	Ala	Ala	Ala	Ile	Val	Met	Arg	Ser	Gly	Trp	Gln	
145				150					155					160		
Pro	Gly	Thr	Pro	Leu	Asp	Pro	Met	Cys	Gly	Ser	Gly	Thr	Leu	Leu		
				165				170						175		
Ile	Glu	Ala	Ala	Met	Leu	Ala	Thr	Asp	Arg	Ala	Pro	Gly	Leu	His	Arg	
			180					185						190		
Gly	His	Trp	Gly	Phe	Lys	Gly	Trp	Ala	Gln	His	Asp	Glu	Ala	Ile	Trp	
		195					200					205				
Lys	Glu	Val	Lys	Asp	Asp	Ala	Gln	Thr	Arg	Ala	Arg	Lys	Gly	Leu	Ala	
		210				215					220					
Glu	Tyr	Thr	Ser	His	Phe	Tyr	Gly	Ser	Asp	Ser	Asp	Ala	Arg	Val	Ile	
225				230					235					240		
Glu	Arg	Ala	Arg	Ser	Asn	Ala	Arg	Arg	Ala	Gly	Ile	Gly	Glu	Leu	Val	
				245				250						255		
Thr	Phe	Glu	Val	Lys	Asp	Val	Ala	Asn	Leu	Thr	Asn	Pro	Leu	Pro	Lys	
			260					265						270		
Gly	Pro	Tyr	Gly	Thr	Val	Ile	Ser	Asn	Pro	Pro	Tyr	Gly	Glu	Arg	Leu	
		275					280					285				
Asp	Ser	Glu	Pro	Ala	Leu	Ile	Ala	Leu	His	Ser	Leu	Leu	Gly	Arg	Asn	
		290				295					300					
Met	Lys	Ala	His	Phe	Gly	Gly	Trp	Asn	Leu	Ser	Leu	Phe	Ser	Ala	Ser	
305				310					315						320	
Pro	Glu	Leu	Leu	Ser	Cys	Leu	Gln	Leu	Arg	Ala	Asp	Arg	Gln	Phe	Lys	
				325				330						335		
Ala	Lys	Asn	Gly	Pro	Leu	Asp	Cys	Val	Gln	Lys	Asn	Tyr	His	Leu	Ala	
			340					345						350		
Glu	Ile	Ala	Ala	Asp	Ser	Lys	Pro	Ser	Gly	Val	Ala	Glu	Asp	Tyr	Ala	
		355					360					365				
Asn	Arg	Leu	Arg	Lys	Asn	Leu	Lys	Lys	Phe	Glu	Lys	Trp	Ala	Lys	Gln	
		370				375					380					
Glu	Gly	Ile	Glu	Cys	Tyr	Arg	Leu	Tyr	Asp	Ala	Asp	Leu	Pro	Glu	Tyr	
385				390						395				400		
Asn	Val	Ala	Val	Asp	Arg	Tyr	Ala	Asp	Trp	Val	Val	Val	Gln	Glu	Tyr	
				405					410					415		
Ala	Pro	Pro	Lys	Thr	Ile	Asp	Ala	Gln	Lys	Ala	Arg	Gln	Arg	Met	Leu	
			420					425						430		
Asp	Val	Ile	Ala	Ala	Thr	Phe	Ala</									

Asn Ser Lys Arg Met Glu Asp Ser Phe Asp Val Gln Arg Asp His Leu
 595 600 605
 Arg Leu Met Thr Asp Leu Lys Arg Leu Leu Arg Lys Gly Gly Thr Ile
 610 615 620
 Met Phe Ser Asn Asn Lys Arg Gly Phe Arg Met Asp His Asp Gly Leu
 625 630 635 640
 Ala Glu Leu Gly Leu Lys Ala Gln Glu Ile Ser Gln Lys Thr Leu Ser
 645 650 655
 Gln Asp Phe Ala Arg Asn Arg Gln Ile His Asn Cys Trp Leu Ile Ser
 660 665 670
 Ala Val
 675

<210> 6434

<211> 636

<212> PRT

<213> Enterobacter cloacae

<400> 6434

Met Ser Leu Ile Ser Met His Gly Ala Trp Leu Ser Phe Ser Asp Ser
 1 5 10 15
 Pro Leu Leu Asp Asn Ala Glu Leu His Ile Glu Asp Asn Glu Arg Val
 20 25 30
 Cys Leu Val Gly Arg Asn Gly Ala Gly Lys Ser Thr Leu Met Lys Ile
 35 40 45
 Leu Asn Arg Glu Gln Gly Leu Asp Asp Gly Arg Ile Val Tyr Glu Gln
 50 55 60
 Asp Leu Ile Val Ser Arg Leu Gln Gln Asp Pro Arg Asn Val Thr
 65 70 75 80
 Gly Ser Val Tyr Asp Phe Val Ala Glu Gly Ile Ser Glu Gln Ala Glu
 85 90 95
 Tyr Leu Lys Arg Tyr His Glu Ile Ser His Leu Val Met Thr Asp Pro
 100 105 110
 Ser Asp Lys Asn Leu Asn Glu Leu Ala Lys Val Gln Glu Met Leu Asp
 115 120 125
 His His Gly Leu Trp Gln Leu Glu Asn Arg Ile Asn Glu Val Leu Ala
 130 135 140
 Gln Leu Gly Leu Glu Ala Asp Met Glu Leu Ser Ala Leu Ser Gly Gly
 145 150 155 160
 Trp Leu Arg Lys Ala Ala Leu Gly Arg Ala Leu Val Ser Gly Pro Lys
 165 170 175
 Val Leu Leu Leu Asp Glu Pro Thr Asn His Leu Asp Ile Glu Ala Ile
 180 185 190
 Asp Trp Leu Glu Gly Phe Leu Lys Thr Phe Asn Gly Thr Ile Ile Phe
 195 200 205
 Ile Ser His Asp Arg Ser Phe Ile Arg Asn Met Ala Thr Arg Ile Val
 210 215 220
 Asp Leu Asp Arg Gly Lys Leu Val Thr Tyr Pro Gly Asp Tyr Asp Thr
 225 230 235 240
 Tyr Leu Leu Glu Lys Glu Glu Asn Leu Arg Val Glu Glu Leu Gln Asn
 245 250 255
 Ala Glu Phe Asp Arg Lys Leu Ala Gln Glu Glu Val Trp Ile Arg Gln
 260 265 270
 Gly Ile Lys Ala Arg Arg Thr Arg Asn Glu Gly Arg Val Arg Ala Leu
 275 280 285
 Lys Ala Met Arg Arg Glu Arg Ser Glu Arg Arg Glu Val Met Gly Ser
 290 295 300
 Ala Lys Met Gln Val Glu Glu Ala Ser Arg Ser Gly Lys Ile Val Phe
 305 310 315 320
 Glu Met Glu Asn Val Asn Tyr Ser Val Asp Gly Lys Val Leu Val Asn
 325 330 335

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Asp Phe Ser Ala Gln Val Gln Arg Gly Asp Lys Ile Ala Leu Ile Gly
      340      345      350
Pro Asn Gly Cys Gly Lys Thr Thr Leu Leu Lys Leu Met Leu Gly Gln
      355      360      365
Leu Gln Ala Asp Ser Gly Arg Ile His Cys Gly Thr Lys Leu Glu Val
      370      375      380
Ala Tyr Phe Asp Gln His Arg Ala Glu Leu Asp Pro Asp Arg Thr Val
      385      390      395      400
Met Asp Asn Leu Ala Glu Gly Lys Gln Glu Val Met Val Asn Gly Lys
      405      410      415
Pro Arg His Val Leu Gly Tyr Leu Gln Asp Phe Leu Phe His Pro Lys
      420      425      430
Arg Ala Met Thr Pro Val Arg Ala Leu Ser Gly Gly Glu Arg Asn Arg
      435      440      445
Leu Leu Leu Ala Arg Leu Phe Leu Lys Pro Ser Asn Leu Leu Ile Leu
      450      455      460
Asp Glu Pro Thr Asn Asp Leu Asp Val Glu Thr Leu Glu Leu Leu Glu
      465      470      475      480
Glu Leu Ile Asp Gly Tyr Gln Gly Thr Val Met Leu Val Ser His Asp
      485      490      495
Arg Gln Phe Val Asp Asn Thr Val Thr Glu Cys Trp Ile Phe Glu Gly
      500      505      510
Glu Gly Arg Ile Gly Gln Tyr Val Gly Gly Tyr His Asp Ala Arg Gly
      515      520      525
Gln Gln Ser Gln Ser Leu Ala Gln Lys Gln Ala Lys Thr Lys Asn Val
      530      535      540
Ala Glu Pro Val Val Ala Lys Ala Glu Thr Val Lys Lys Ser Pro Ala
      545      550      555      560
Lys Met Ser Tyr Asn Leu Gln Arg Glu Leu Glu Gly Leu Pro Gln Arg
      565      570      575
Leu Glu Glu Leu Glu Ala Ala Leu Glu Ala Leu Gln Ile Gln Val Ala
      580      585      590
Asp Ala Ser Phe Phe Thr Gln Pro His Asp Tyr Thr Gln Lys Val Leu
      595      600      605
Ala Glu Leu Ser Gln Ala Glu Gln Ala Leu Glu Glu Ala Phe Glu Arg
      610      615      620
Trp Glu Tyr Leu Glu Ser Leu Lys Asn Gly Ala
      625      630      635

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<210> 6435

<211> 552

<212> PRT

<213> Enterobacter cloacae

<400> 6435

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Gly Arg Val Arg Ala Trp Lys Ile Arg Val Glu Arg Leu Lys Cys Arg
1      5      10      15
Arg Ser Glu Thr Gly Arg Arg Cys Gly Phe Ser Pro Ile Val Thr Ala
      20      25      30
Leu Ile Gly Ala Trp Ile Leu Phe Tyr His Tyr Ser His Gln Gly Pro
      35      40      45
Glu Val Thr Leu Ile Thr Thr Asn Ala Glu Gly Ile Glu Gly Gly Lys
      50      55      60
Thr Thr Ile Lys Ser Arg Ser Val Asp Val Gly Val Val Glu Ser Ala
      65      70      75      80
Thr Leu Thr Asp Asp Leu Thr His Val Glu Ile Lys Ala Arg Leu Asn
      85      90      95
Ala Gly Met Glu Lys Leu Leu His Glu Asp Ser Val Phe Trp Val Val
      100      105      110
Lys Pro Gln Val Gly Arg Glu Gly Ile Ser Gly Leu Gly Thr Leu Leu
      115      120      125

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Ser Gly Ala Tyr Ile Glu Leu Gln Pro Gly Asn Lys Gly Ala Gln Pro
130      135      140
Ala Asn Tyr Gln Leu Leu Asp Ser Pro Pro Leu Ala Pro Pro Asp Ala
145      150      155      160
Lys Gly Ile Arg Val Ile Leu Asp Ser Lys Lys Ala Gly Gln Leu Ser
165      170      175
Pro Gly Asp Pro Val Leu Phe Arg Gly Tyr Arg Val Gly Ser Val Glu
180      185      190
Thr Ser Thr Phe Asp Pro Gln Lys Arg Thr Ile Ser Tyr Gln Leu Phe
195      200      205
Ile Asn Ala Pro Asn Asp Arg Leu Val Thr Ser Asn Val Arg Phe Trp
210      215      220
Lys Asp Ser Gly Ile Ala Val Asp Leu Thr Ser Ala Gly Met Arg Val
225      230      235      240
Glu Met Gly Ser Leu Thr Thr Leu Phe Gly Gly Gly Val Ser Phe Asp
245      250      255
Val Pro Glu Gly Ile Asp Leu Gly Gln Pro Val Ala Glu Lys Thr Ala
260      265      270
Phe Arg Leu Phe Asp Asp Gln Lys Ser Ile Gln Asp Ala Leu Tyr Thr
275      280      285
Asp His Ile Asp Tyr Leu Met Phe Phe Lys Asp Ser Val Arg Gly Leu
290      295      300
Gln Pro Gly Ala Pro Val Glu Phe Arg Gly Ile Arg Leu Gly Thr Val
305      310      315      320
Gly Gln Val Pro Tyr Phe Val Pro Gly Leu Lys Gln Met Leu Asp Asp
325      330      335
Asp Tyr Arg Ile Pro Val Leu Ile Arg Ile Glu Pro Glu Arg Leu Ile
340      345      350
Asn Gln Ile Gly Glu Asp Gln Asp Ile Gly Glu His Ile Ser Asp Leu
355      360      365
Leu Asn Arg Gly Leu Arg Gly Ser Leu Lys Thr Gly Asn Leu Val Thr
370      375      380
Gly Ala Leu Tyr Val Asp Met Asp Phe Tyr Pro Lys Ala Pro Pro Met
385      390      395      400
Thr Gly Val Arg Glu Phe Gly Gly Tyr Lys Ile Ile Pro Thr Val Ser
405      410      415
Ser Gly Leu Ala Gln Ile Gln Gln Arg Leu Met Glu Thr Leu Asp Lys
420      425      430
Ile Asn Asn Leu Pro Leu Asn Pro Met Leu Glu Ala Ala Thr Gly Ser
435      440      445
Leu His Gln Ser Gln Ala Thr Met Leu Arg Leu Gln Thr Thr Leu Asp
450      455      460
Asn Ile Asn Lys Ile Thr Ala Asn Gln Ser Met Gln Gln Leu Pro Gln
465      470      475      480
Asp Met Gln Lys Thr Leu Arg Glu Leu Asn Arg Ser Met Gln Gly Phe
485      490      495
Gln Pro Gly Ser Ala Ala Tyr Asn Lys Met Val Ala Asp Met Gln Arg
500      505      510
Leu Asp Gln Val Leu Arg Glu Leu Gln Pro Val Leu Lys Thr Leu Asn
515      520      525
Glu Lys Ser Asn Ala Leu Val Phe Glu Ala Lys Asp Lys Lys Asp Pro
530      535      540
Glu Pro Lys Arg Ala Lys Gln
545      550

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<210> 6436

<211> 133

<212> PRT

<213> Enterobacter cloacae

<400> 6436

Val Phe Tyr Phe Ser Asn Thr Thr Arg Cys Phe Tyr Cys Asp Glu Asn
 1 5 10 15
 Asn Ile Ser Arg Pro Glu Asp Ala Ile Glu Val Ser Glu Gln Asp Val
 20 25 30
 His Lys Tyr Ser Gly Gln Asn Pro Gln Trp Met Leu Pro Asn Val Ser
 35 40 45
 Glu Gly Gly Lys Met Glu Trp Ile Asp Asp Ile Ser Ile Asp Lys Arg
 50 55 60
 Thr Ala Arg Tyr Glu Ile Asn Lys Gln Glu Lys Glu Arg Leu Leu Asn
 65 70 75 80
 Arg Thr Ile Lys Glu Arg Tyr Thr Leu Glu Val Ile Gly Gln Thr Ser
 85 90 95
 Val Leu Ser Val Glu Gln Ser Thr Met Met Gln Ser Leu Ser Ala Tyr
 100 105 110
 Ile Asn Glu Leu Asn Gln Val Asp Leu Tyr Ala Asp Asn Pro Val Trp
 115 120 125
 Pro Ile His Pro
 130

<210> 6437

<211> 358

<212> PRT

<213> Enterobacter cloacae

<400> 6437

Glu Val Asn Met Thr Thr Asp Phe Leu His Gly Val Arg Thr Ile Glu
 1 5 10 15
 Tyr Asp Asp Gly Thr Glu Glu Ile Ser Thr Val Thr Val Ser Val Ile
 20 25 30
 Gly Ile Val Gly Thr Ala Pro Asp Ser Thr Ala Ala Thr Cys Ala Ser
 35 40 45
 Leu Val Thr Gly Ser Glu Leu Thr Asn Asn Lys Ile Thr Trp Gln Ala
 50 55 60
 Glu Asp Ala Gly Ile Lys Gly Asn Ser Phe Ser Val Glu Ile Val Pro
 65 70 75 80
 Gly Asp Val Tyr Pro Ala Asn Thr Lys Trp Gly Gly Asp Val Asn Tyr
 85 90 95
 Ser Thr Ile Tyr His Tyr Ser Ile Lys Pro Asp Gly Ser Leu Lys Leu
 100 105 110
 Ser Val Arg Met Pro Val Asp Ser Asp Gly Lys Lys Leu Met Asn Ala
 115 120 125
 Glu Leu Ile Thr Ser Ile Trp Asp Met Val Pro Pro Leu Asp Asn Tyr
 130 135 140
 Cys Arg Ile Lys Ala Ile Ile Tyr Ser Thr Ser Asn Asp Asn Gly Lys
 145 150 155 160
 Val Met Tyr Met Ser Glu Thr Asn Leu Ala Gly Gly Ala Asp Glu Ala
 165 170 175
 Phe Pro Leu Asn Val Pro Thr Val Ile Ala Gly Ser Thr Thr Lys Ala
 180 185 190
 Ala Lys Leu Gly Ala Thr Gly Thr Leu Pro Ala Asp Ile Asn Asp Ile
 195 200 205
 Phe Asn Gln Thr Arg Ala Leu Ile Val Val Val Arg Val Ala Asp Asp
 210 215 220
 Ala Asp Ala Ser Lys Leu Gln Gln Asn Val Ile Ala Gly Leu Asn Thr
 225 230 235 240
 Leu Pro Ser Ser Gly Gln Leu Asn Glu Val Met Pro Arg Ile Ile Ile
 245 250 255
 Ala Pro Asp Phe Ser Ala Thr Asp Pro Val Ala Val Gln Ile Glu Val
 260 265 270
 Ile Ala Asn Lys Val Arg Gly Val Gly Tyr Ile Asp Ser Pro Ser Phe
 275 280 285

Ala Thr Ala Lys Asp Val Ala Leu Arg Arg Gln Ser Tyr Gly Lys Arg
 290 295 300
 Val Glu Ile Leu Arg Pro Arg Val Phe Thr Thr Ser Ser Ala Gly Ser
 305 310 315 320
 Thr Ser Arg Ala Tyr Ser Ala Ser Ala Ala Gly Leu Arg Cys Pro Ile
 325 330 335
 Asp Asn Lys Lys Gly Phe Trp Trp Ser Lys Ser Asn Gln Gln Ile Met
 340 345 350
 Gly Arg Asp Ser Thr
 355

<210> 6438

<211> 194

<212> PRT

<213> Enterobacter cloacae

<400> 6438

Thr Arg His Arg Ser Leu Leu Leu Lys Met Trp Pro Cys Ala Gly Arg
 1 5 10 15
 Val Thr Glu Ser Ala Ser Lys Ser Tyr Ala Arg Ala Cys Leu Leu Pro
 20 25 30
 Val Gln Arg Val Ala Arg His Ala His Ile Gln Arg Ala Arg Ala
 35 40 45
 Tyr Val Val Gln Leu Ile Thr Arg Lys Ala Phe Gly Gly Val Ser Pro
 50 55 60
 Ile Asn Lys Ser Trp Gly Val Thr Ala Leu Glu Gln Val Asp Glu Tyr
 65 70 75 80
 Ile Ile Gly Asp Asp Thr Cys Val Val Asn Leu Leu Asn Lys Asn Gln
 85 90 95
 Val Ser Thr Ile Val Arg Arg Ser Gly Phe Lys His Trp Gly Asn Tyr
 100 105 110
 Leu Cys Ser Thr Asp Pro Pro Trp Ala Phe Glu Cys Val Arg Arg Thr
 115 120 125
 Ala Asp Val Ile Glu Asp Ser Ile Ala Asp Thr Val Glu Asn Glu Phe
 130 135 140
 Ile Asp Arg Pro Ile Asp Leu His Leu Gly Asp Asp Ile Ile Glu Ser
 145 150 155 160
 Ile Asn Gly Phe Ile Arg Tyr Leu Phe Asp Ile Gly Ala Ile Asn Gly
 165 170 175
 Gly Lys Ala Trp Leu Asp Pro Glu Leu Asn Thr Lys Glu Ser Leu Ala
 180 185 190
 Gly

<210> 6439

<211> 175

<212> PRT

<213> Enterobacter cloacae

<400> 6439

Lys Gly Ile Lys Met Ala Glu Ala Asn Val Tyr Arg Ala His Ala Leu
 1 5 10 15
 Trp Val Gln Gly Arg Leu Val Cys Gly Cys Glu Ser Tyr Thr Pro Val
 20 25 30
 Asp Met Lys Ile Ile Glu Asp Glu Phe Lys Thr Gly Ser Met Asp Met
 35 40 45
 Ala Met Thr Leu Asp Gly Gly Met Glu Arg Met Gly Ala Ser Phe Lys
 50 55 60
 Val Lys Gly Ser Asp Val Asp Val Met Ser Met Phe Gly Phe Ile Pro
 65 70 75 80
 Gly Val Arg Thr Arg Phe Glu Ile Arg Ser Ala Phe Val Thr Asn Ser

				85					90					95			
Gly	Glu	Thr	Ile	Ile	Arg	Lys	Asp	Phe	Tyr	Glu	Gly	Pro	Ile	Thr	Gly		
			100					105					110				
Ile	Thr	Asp	Glu	Glu	Gly	Thr	Asp	Ser	Lys	Ser	Gly	Val	Gly	Gln			
		115					120				125						
Thr	Val	Thr	Ile	Ala	Pro	Asn	Tyr	Phe	Lys	Arg	Ile	Gln	Gly	Asp	Lys		
		130				135					140						
Glu	Ile	Tyr	Glu	Ile	His	Pro	Ala	Lys	Met	Ile	Arg	Arg	Val	Asn	Gly		
145					150					155					160		
Val	Asn	Val	Leu	Gly	Glu	Ile	Ala	Ser	Gly	Leu	Lys	Ile	Tyr				
			165						170					175			

<210> 6440

<211> 513

<212> PRT

<213> Enterobacter cloacae

<400> 6440

Gly	Ser	Tyr	Val	Lys	Lys	Met	Ala	Ile	Ser	Gln	Asn	Phe	Arg	Ser	Thr		
1				5					10					15			
Val	Thr	Phe	Gly	Gly	Arg	Val	Asp	Pro	Ser	Phe	Arg	Arg	Gly	Ser	Asp		
		20					25						30				
Glu	Leu	Lys	Gly	Ala	Ile	Lys	Glu	Ala	Gly	Gln	Ser	Val	Ser	Gln	Leu		
		35				40						45					
Thr	Lys	Arg	Gln	Glu	Lys	Leu	Lys	Gln	Gln	Met	Ala	Ser	Leu	Lys	Leu		
	50				55						60						
Ala	Gly	Lys	Asp	Val	Ser	Ala	Leu	Ile	Lys	Gln	Tyr	Glu	Lys	Leu	Ser		
65				70					75						80		
Arg	Gln	Ile	Val	Asn	Ala	Thr	Glu	Asp	Gln	Glu	Lys	Leu	Asn	Gln	Gln		
				85					90					95			
Leu	Lys	Arg	Gln	Glu	Arg	Leu	Asp	Lys	Trp	Lys	Gly	Arg	Ala	Ala	Ala		
			100				105						110				
Val	Pro	Lys	Trp	Ala	Gly	Lys	Ala	Ala	Trp	Gly	Ala	Ala	Lys	Gly	Leu		
		115				120						125					
Ala	Phe	Ser	Ser	Leu	Ala	Pro	Ala	Ala	Met	Phe	Ala	Gly	Ala	Ile	Gln		
	130				135						140						
Met	Asn	Ser	Glu	Thr	Ser	Glu	Lys	Leu	Gly	Leu	Ala	Lys	Ser	Tyr	Gly		
145				150					155						160		
Val	Gly	Ile	Asp	Lys	Tyr	Gly	Ala	Trp	Glu	Asn	Ile	Ala	Lys	Lys	Ala		
			165					170						175			
Gly	Leu	Asn	Gly	Glu	Asn	Val	Gly	Asp	Leu	Ala	Glu	Glu	Leu	Thr	Asn		
		180					185						190				
Lys	Ile	Gly	Glu	Lys	Asp	Asn	Glu	Lys	Thr	Phe	Asn	Pro	Met	Leu	Ala		
		195				200						205					
Gln	Ile	Asn	Leu	Ser	Lys	Arg	Arg	Met	Ala	Gly	Trp	Ser	Arg	Glu	Lys		
	210				215					220							
Gln	Phe	Asp	Glu	Val	Met	Ser	Arg	Ile	Ser	Arg	Met	Lys	Asp	Glu	Lys		
225				230						235					240		
Gln	Ala	Ala	Ser	Leu	Ala	Asp	Gln	Leu	Met	Gly	Gly	Glu	Ala	Asn	Lys		
			245					250						255			
Ile	Met	Thr	Tyr	Met	Arg	Met	Thr	Gly	Lys	Thr	Trp	Glu	Gln	Thr	Met		
		260					265						270				
Ala	Lys	Ala	Lys	Lys	Ser	Asn	Leu	Leu	Thr	Gln	Glu	Gly	Ala	Glu	Gly		
		275				280						285					
Ala	Ala	Arg	Ala	His	Phe	Ala	Val	Thr	Asn	Leu	Trp	Gly	Ala	Ile	Thr		
	290				295					300							
Ser	Gly	Leu	Ser	Asp	Thr	Leu	Gly	Lys	Ile	Gly	Gly	Glu	Leu	Glu	Pro		
305				310					315						320		
Asp	Ile	Asn	Arg	Phe	Lys	Glu	Ser	Thr	Ile	Ser	Trp	Phe	Lys	Glu	Asn		
			325					330						335			
Gln	Gly	Ala	Phe	Val	Glu	Gly	Ile	Arg	Asn	Trp	Ile	Lys	Pro	Asp	Glu		

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<210> 6441
<211> 73
<212> PRT
<213> Enterobacter cloacae
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```
<210> 6442
<211> 103
<212> PRT
<213> Enterobacter cloacae
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[illegible]

<210> 6443

<211> 302

<212> PRT

<213> Enterobacter cloacae

<400> 6443

```

Lys Leu Val Met Val Ile Val Cys His Asn Thr Arg Gln Thr Arg Arg
1          5          10          15
Arg Phe Ile Met Ile Ala Ile Thr Gly Ala Thr Gly Gln Leu Gly Gln
20          25          30
His Val Ile Glu Glu Leu Leu Lys Thr Val Pro Ala Ser Gln Ile Val
35          40          45
Ala Ile Val Arg Asn Leu Ala Lys Ala Glu Ala Leu Arg Gln Gln Gly
50          55          60
Val Val Val Arg Gln Ala Asp Tyr Thr Asp Glu Ala Ala Phe Thr Thr
65          70          75          80
Ala Leu Asn Gly Val Asp Lys Leu Leu Leu Ile Ser Ser Ser Glu Val
85          90          95
Gly Gln Arg Ala Val Gln His Gln Asn Val Ile Asn Ala Ala Lys Ala
100         105         110
Ala Gly Val Lys Phe Ile Ala Tyr Thr Ser Leu Leu His Ala Asp Lys
115         120         125
Ser Pro Leu Gly Leu His Val Glu His Val Glu Thr Glu Asn Ala Leu
130         135         140
Ala Ala Ser Gly Val Pro Tyr Ala Leu Leu Arg Asn Gly Trp Tyr Thr
145         150         155         160
Glu Asn Tyr Leu Ala Ser Ala Pro Pro Ala Leu Glu His Gly Val Phe
165         170         175
Met Gly Ala Ala Gly Glu Gly Lys Ile Ala Ser Ala Thr Arg Ala Asp
180         185         190
Tyr Ala Ala Ala Ala Lys Val Ile Ser Glu Glu Gly His Ala Gly
195         200         205
Lys Val Tyr Glu Leu Ala Gly Asp Asn Ala Trp Thr Leu Ser Glu Leu
210         215         220
Ala Ala Glu Leu Ser Lys Gln Ser Gly Lys Pro Val Thr Tyr Gln Asn
225         230         235         240
Leu Ser Glu Ala Asp Phe Ala Ala Ala Leu Lys Gly Val Gly Leu Pro
245         250         255
Ala Gly Leu Ala Glu Met Leu Ala Asp Ser Asp Thr Gly Ala Ser Lys
260         265         270
Gly Gly Leu Phe Asp Asp Ser His Thr Leu Ser Lys Leu Ile Gly Arg
275         280         285
Pro Thr Thr Pro Leu Ala Glu Ser Val Lys Ala Ile Leu
290         295         300

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<210> 6444

<211> 281

<212> PRT

<213> Enterobacter cloacae

<400> 6444

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Pro Thr Arg Arg Leu Thr Val Gln Gly Val Pro Glu Gln Phe Thr Asp
1          5          10          15
Glu Arg Asp Ser Ala Arg Phe Arg His Leu Ala Gln Leu Pro Gly Leu
20          25          30
Glu Leu Tyr His Ala His Ile Ser Asp Tyr Ala Phe Glu Pro His Thr
35          40          45
His Glu Ala Phe Gly Ile Gly Thr Ile Glu Thr Gly Ala Glu Arg Phe
50          55          60
Arg Tyr Arg Gly Thr Gln His Leu Ala Ala Glu Lys Ser Val Val Thr

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65					70					75				80
Met	Asn	Pro	Asp	Glu	Ile	His	Thr	Gly	Glu	Ser	Ala	Thr	Glu	Gly
				85					90				95	
Trp	Arg	Tyr	Arg	Met	Val	Tyr	Ile	Glu	Pro	Asp	Leu	Leu	Glu	Val
			100					105					110	
Thr	Gly	Leu	Arg	His	Trp	Trp	Phe	Ser	Asp	Val	Thr	Arg	His	Asp
		115					120					125		Pro
Leu	Arg	Ser	Gln	Gln	Ile	Gly	Gln	Leu	Ile	Tyr	Gly	Leu	Trp	His
	130					135					140			Thr
Asp	Asp	Pro	Leu	Ala	Gln	Lys	Gly	Leu	Leu	Leu	Asp	Leu	Ile	Gln
145					150					155				160
Phe	Gln	Pro	Leu	Ala	His	His	Ala	Pro	Val	Val	Gln	Glu	Ala	Thr
				165					170					175
Arg	Phe	Glu	Arg	Val	Arg	Asp	Tyr	Leu	His	Asp	Asn	Tyr	Met	Arg
			180					185					190	Ser
Leu	Thr	Leu	Asp	Glu	Leu	Ala	Asn	Val	Val	Ser	Leu	Ser	Pro	Tyr
		195					200					205		His
Phe	Gln	Arg	Gln	Phe	Lys	Ala	His	Phe	His	Val	Thr	Pro	His	Gln
	210				215						220			Met
Leu	Met	Ala	Ile	Arg	Leu	Trp	Arg	Ala	Lys	Ala	Phe	Leu	Thr	His
225					230				235					Gly
Met	Pro	Ala	Ala	Glu	Val	Ala	Ala	Ala	Thr	Gly	Leu	Thr	Asp	Gln
				245					250					255
His	Leu	Thr	Arg	Ala	Phe	Thr	Arg	Arg	Tyr	Gly	Ile	Thr	Pro	Val
			260					265					270	Arg
Tyr	Gln	Lys	Gln	Val	Met	Pro	Arg							
		275					280							

<210> 6445

<211> 328

<212> PRT

<213> Enterobacter cloacae

<400> 6445

Ile	Lys	Met	Asp	Gly	Lys	Met	Ile	Ser	Gly	Val	Leu	Tyr	Ala	Leu	Leu
1				5					10					15	
Ala	Gly	Leu	Met	Trp	Gly	Leu	Ile	Phe	Val	Gly	Pro	Leu	Ile	Val	Pro
		20						25					30		
Glu	Tyr	Pro	Ala	Ile	Leu	Gln	Ser	Thr	Gly	Arg	Tyr	Leu	Ala	Leu	Gly
		35					40					45			
Leu	Ile	Ala	Val	Pro	Leu	Ala	Trp	Leu	Gly	Arg	Thr	Arg	Leu	Arg	Gln
	50					55					60				
Leu	Gly	Arg	Gln	Asp	Trp	Leu	Thr	Ala	Leu	Ala	Leu	Thr	Met	Met	Gly
65				70					75						80
Asn	Leu	Ile	Tyr	Tyr	Val	Cys	Leu	Ala	Ser	Ala	Ile	Gln	Arg	Thr	Gly
				85					90					95	
Ala	Pro	Val	Ser	Thr	Met	Ile	Ile	Gly	Thr	Leu	Pro	Val	Val	Ile	Pro
			100					105					110		
Val	Phe	Ala	Asn	Leu	Leu	Tyr	Ser	Gln	Arg	Asp	Gly	Lys	Leu	Ala	Trp
		115					120					125			
Ser	Lys	Met	Ala	Pro	Ala	Leu	Val	Cys	Ile	Ala	Val	Gly	Leu	Val	Cys
	130					135					140				
Val	Asn	Ile	Ala	Glu	Leu	Arg	His	Gly	Leu	Glu	Asn	Phe	Ser	Val	Trp
145				150					155						160
Arg	Tyr	Gly	Ser	Gly	Ile	Phe	Leu	Ala	Phe	Ile	Ser	Val	Val	Cys	Trp
				165					170					175	
Ala	Trp	Tyr	Ala	Leu	Arg	Asn	Ala	Arg	Trp	Leu	Arg	Glu	Asn	Pro	Asp
			180					185					190		
Lys	His	Pro	Met	Met	Trp	Ala	Thr	Ala	Gln	Ala	Leu	Val	Thr	Leu	Pro
		195					200					205			
Val	Ser	Leu	Leu	Gly	Tyr	Val	Gly	Ala	Cys	Val	Trp	Leu	Gly	Ser	Gln

210		215		220
Gln Pro Ala Phe Thr	Leu Pro Phe Gly Pro Arg	Pro Trp Val Phe Val		
225	230	235		240
Gly Leu Met Val	Ile Ala Val Leu Cys Ser	Trp Val Gly Ala Leu		
	245	250	255	
Cys Trp Asn Ile	Ala Ser Gln Lys Leu Pro Thr	Val Ile Leu Gly Pro		
	260	265	270	
Leu Ile Val Phe	Glu Thr Leu Ala Gly Leu Leu Tyr	Thr Phe Leu Met		
	275	280	285	
Arg Gln Ser Val	Pro Pro Leu Leu Thr Ala Cys	Gly Ile Ala Leu Leu		
	290	295	300	
Val Val Gly Val	Val Ile Ala Val Arg Ala Lys	Pro Glu Lys Pro Met		
305	310	315	320	
Val Val Pro Ala	Ser Glu Gly			
	325			

<210> 6446

<211> 233

<212> PRT

<213> Enterobacter cloacae

<400> 6446

Asn Ala Ser Tyr	Ile Ser Asp Asp	Glu Val Thr	Ala Met Ala	Phe Arg
1	5	10		15
Asp Gln Pro Leu	Gly Glu Leu Ala	Leu Ser Ile	Pro Arg Ala	Ser Ala
	20	25	30	
Leu Phe Arg Lys	Tyr Asp Met Asp	Tyr Cys Cys	Gly Gly Lys	Gln Thr
	35	40	45	
Leu Ala Arg Ala	Ala Ser Arg Lys	Glu Leu Asp	Val Glu Ala	Ile Glu
	50	55	60	
Ala Glu Leu Ala	Gln Leu Ala Glu	Gln Pro Val	Asp Lys Asp	Trp Arg
	65	70	75	80
Thr Ala Pro Leu	Ala Glu Ile Ile	Asp His Ile	Ile Val Arg	Tyr His
	85	90	95	
Asp Arg His Arg	Glu Gln Leu Pro	Glu Leu Ile	Leu Gln Ala	Thr Lys
	100	105	110	
Val Glu Arg Val	His Ala Asp Lys	Pro Ser Val	Pro Arg Gly	Leu Ala
	115	120	125	
Lys Tyr Leu Thr	Met Leu His Glu	Glu Leu Ser	Ser His Met	Met Lys
	130	135	140	
Glu Glu Gln Ile	Leu Phe Pro Met	Ile Lys Gln	Gly Met Gly	Ser Gln
	145	150	155	160
Ala Met Gly Pro	Ile Ser Val Met	Glu Ser Glu	His Asp Asp	Ala Gly
	165	170	175	
Glu Leu Leu Glu	Val Ile Lys His	Thr Thr Asp	Asn Val Thr	Pro Pro
	180	185	190	
Pro Glu Ala Cys	Thr Thr Trp Lys	Ala Met Tyr	Asn Gly Ile	Asn Glu
	195	200	205	
Met Ile Asp Asp	Leu Met Glu His	Ile Ser Leu	Glu Asn Asn	Val Leu
	210	215	220	
Phe Pro Arg Ala	Leu Ala Gly Glu			
225	230			

<210> 6447

<211> 139

<212> PRT

<213> Enterobacter cloacae

<400> 6447

Leu Leu Val Ser	Thr Tyr Lys Lys	Val Ser Met	Lys Thr Thr	Ile Pro
1	5	10		15

Thr Leu Ser Glu Gln Met Arg Asp Gly Asn Leu Phe Ala Glu Gln Cys
 20 25 30
 Pro Ser Arg Glu Val Leu Lys His Val Thr Ser Arg Trp Gly Val Leu
 35 40 45
 Ile Leu Val Ala Leu Arg Gln Gly Thr His Arg Phe Ser Asp Leu Arg
 50 55 60
 Arg Lys Met Gly Gly Val Ser Glu Lys Met Leu Ala Gln Ser Leu Gln
 65 70 75 80
 Ala Leu Glu His Asp Gly Phe Val Asp Arg Val Ser Tyr Pro Val Val
 85 90 95
 Pro Pro His Val Glu Tyr Ser Leu Thr Pro Leu Gly Arg Glu Val Ser
 100 105 110
 Glu Lys Val Ala Ala Leu Ala Asp Trp Ile Glu Val Asn Thr Pro Gln
 115 120 125
 Val Met Ala Asn Arg Asp Glu Arg Ala Ala
 130 135

<210> 6448

<211> 554

<212> PRT

<213> Enterobacter cloacae

<400> 6448

Lys Arg Gln Arg Met Phe Lys Arg Ile Lys Val Ile Thr Leu Leu Ile
 1 5 10 15
 Ser Val Leu Leu Val Leu Gly Ile Met Gln Leu Ile Ser Ala Gly Ile
 20 25 30
 Phe Ile Asn Ala Leu Asn Asn Asp Lys Glu Asn Phe Thr Val Ser Gln
 35 40 45
 Leu Ser Ser Gln Asn Val Ala Glu Phe Thr Asp Ala Trp Ile Ser Leu
 50 55 60
 Asn Gln Ala Arg Val Thr Leu Asn Arg Gly Met Leu Arg Leu Gln Ser
 65 70 75 80
 Ser Met Ala Ser Gln Ile Asn Gly Gly Gln Leu Asn Glu Leu Val Asn
 85 90 95
 Thr Ala Lys Asn Leu Leu Ala Asp Ala Gln Thr His Tyr Asp Lys Tyr
 100 105 110
 Tyr Ala Leu Pro Glu Thr Pro Gly Met Asp Glu His Leu Ala Asp Arg
 115 120 125
 Leu Glu Glu Gln Tyr Arg Val Tyr Ser Ala Thr Leu Thr Gln Met Asn
 130 135 140
 Val Leu Leu Gly Gln Gly Asn Leu Glu Asp Met Phe Lys Gln Asn Ala
 145 150 155 160
 Glu Gln Lys Gln Thr Ala Met Gln Lys Val Tyr Arg Glu Trp Arg Glu
 165 170 175
 Ala Gln Ala Ala Leu Thr Ala Lys Gly Ile Gln Asp Asn Glu Ser Asp
 180 185 190
 Tyr Lys Arg Ile Leu Trp Ile Leu Ser Ala Val Met Leu Leu Val Ile
 195 200 205
 Ala Val Ile Ile Ser Ser Trp Ile Ala Met Arg Arg Val Leu Leu Leu
 210 215 220
 Pro Leu Glu Glu Val Ile Asn His Ile Arg Ala Ile Ala Ala Gly Asp
 225 230 235 240
 Leu Thr Gln Pro Ile Gln Ala Glu Gly Lys Asn Glu Met Ala Ile Leu
 245 250 255
 Ala Arg Asn Val Gln Glu Met Gln Thr Ala Leu Ala Asn Thr Val Gly
 260 265 270
 Val Val Arg Glu Gly Ala Asp Thr Ile Tyr Thr Gly Ala Gly Glu Ile
 275 280 285
 Ser Ala Gly Ser Asn Asp Leu Ser Ser Arg Thr Glu Gln Gln Ala Ala
 290 295 300

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Ser Leu Glu Glu Thr Ala Ala Ser Met Glu Gln Leu Thr Ala Thr Val
305          310          315          320
Lys Gln Asn Ala Asp Asn Ala Arg Gln Ala Ser Arg Leu Ala Leu Asp
          325          330          335
Ala Ser Ser Thr Ala Lys Lys Gly Gly Asn Val Val Glu Gly Val Val
          340          345          350
Arg Thr Met Asp Glu Ile Ala Thr Ser Ser Ser Lys Ile Ala Gln Ile
          355          360          365
Thr Asn Val Ile Asp Gly Ile Ala Phe Gln Thr Asn Ile Leu Ala Leu
          370          375          380
Asn Ala Ala Val Glu Ala Ala Arg Ala Gly Glu Gln Gly Arg Gly Phe
385          390          395          400
Ala Val Val Ala Gly Glu Val Arg Thr Leu Ala Gln Arg Ser Ala Gln
          405          410          415
Ala Ala Lys Glu Ile Lys Ala Leu Ile Asp Asp Ser Gly Glu Arg Val
          420          425          430
Asn Ala Gly Ser Gln Leu Val Asn Glu Ala Gly Ala Thr Met Ala Glu
          435          440          445
Ile Val Asn Ala Val Thr Arg Val Thr Asp Ile Met Gly Glu Ile Ala
          450          455          460
Ser Ala Ser Asp Glu Gln Ser Arg Gly Ile Asp Gln Val Gly Gln Ala
465          470          475          480
Val Ala Glu Met Asp Arg Val Thr Gln Gln Asn Ala Ser Leu Val Glu
          485          490          495
Glu Ser Ala Ala Ala Ala Ala Ala Leu Glu Asp Gln Ala Ala Arg Leu
          500          505          510
Asn Asp Ala Val Ala Val Phe Lys Ile Thr Arg Asn Gln Ala Val Lys
          515          520          525
Ala Ala Pro Val Lys Thr Tyr Ala Pro Lys Ala Gln Pro Val Ala Ala
530          535          540
Ala Ser Glu Ala Asn Trp Glu Thr Phe
545          550

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<210> 6449

<211> 240

<212> PRT

<213> Enterobacter cloacae

<400> 6449

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Asp Asp Glu His Met Asp Gly Trp Gln Arg Ala Phe Val Leu His Ser
1          5          10          15
Arg Pro Trp Ser Glu Thr Ser Leu Met Leu Asp Val Phe Thr Glu Glu
          20          25          30
Ser Gly Arg Val Arg Leu Val Ala Lys Gly Ala Arg Ser Arg Arg Ser
          35          40          45
Asn Leu Lys Gly Ala Leu Gln Pro Phe Thr Pro Leu Val Arg Phe
50          55          60
Gly Gly Arg Gly Glu Val Lys Thr Leu Arg Ser Ala Glu Ala Val Ser
65          70          75          80
Leu Ala Leu Pro Leu Ser Gly Ile Thr Leu Tyr Ser Gly Leu Tyr Val
          85          90          95
Asn Glu Leu Ile Ser Arg Val Leu Glu His Glu Thr Arg Phe Ser Glu
          100          105          110
Leu Phe Phe Asp Tyr Leu His Cys Ile Gln Ser Leu Ala Gly Ala Thr
          115          120          125
Gly Thr Pro Glu Pro Val Leu Arg Arg Phe Glu Leu Ala Leu Leu Gly
130          135          140
His Leu Gly Tyr Gly Val Asp Phe Leu His Cys Ala Gly Ser Gly Asp
145          150          155          160
Glu Val Glu Asp Thr Met Thr Tyr Arg Tyr Arg Glu Glu Lys Gly Phe
          165          170          175

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Ile Ala Ser Val Val Val Asp Asn Ser Thr Phe Thr Gly Arg Gln Leu
 180 185 190
 Arg Ala Leu Tyr Glu Arg Glu Phe Pro Asp Ala Asp Thr Leu Arg Ala
 195 200 205
 Ala Lys Arg Phe Thr Arg Ile Ala Leu Lys Pro Tyr Leu Gly Gly Lys
 210 215 220
 Pro Leu Lys Ser Arg Glu Leu Phe Arg Gln Phe Met Pro Lys Arg
 225 230 235 240

<210> 6450

<211> 251

<212> PRT

<213> Enterobacter cloacae

<400> 6450

Thr Lys Ile Pro Arg Ile Val Met Ala Glu Leu Leu Leu Gly Val Asn
 1 5 10 15
 Ile Asp His Ile Ala Thr Leu Arg Asn Ala Arg Gly Thr Ala Tyr Pro
 20 25 30
 Asp Pro Val Gln Ala Ala Phe Ile Ala Glu Gln Ala Gly Ala Asp Gly
 35 40 45
 Ile Thr Val His Leu Arg Glu Asp Arg Arg His Ile Thr Asp Arg Asp
 50 55 60
 Val Arg Ile Leu Arg Gln Thr Leu Asp Asn Arg Met Asn Leu Glu Met
 65 70 75 80
 Ala Val Thr Glu Glu Met Leu Thr Ile Ala Cys Asp Thr Lys Pro His
 85 90 95
 Phe Cys Cys Leu Val Pro Glu Lys Arg Gln Glu Val Thr Thr Glu Gly
 100 105 110
 Gly Leu Asp Val Ala Gly Gln Leu Asp Lys Met Arg Asp Ala Cys Lys
 115 120 125
 Arg Leu Ala Asp Ala Gly Ile Leu Val Ser Leu Phe Ile Asp Ala Asp
 130 135 140
 Phe Thr Gln Ile Lys Ala Ala Ala Asp Val Gly Ala Pro Tyr Ile Glu
 145 150 155 160
 Ile His Thr Gly Cys Tyr Ala Asp Ala Glu Asn Asp Ala Ala Gln Ala
 165 170 175
 Lys Glu Leu Glu Arg Ile Ala Lys Ala Ala Thr Tyr Ala Ala Ser Leu
 180 185 190
 Gly Leu Lys Val Asn Ala Gly His Gly Leu Thr Tyr His Asn Val Lys
 195 200 205
 Ala Ile Ala Ala Leu Pro Glu Met His Glu Leu Asn Ile Gly His Ala
 210 215 220
 Ile Ile Gly Arg Ala Val Met Ser Gly Leu Lys Asp Ala Val Ser Glu
 225 230 235 240
 Met Lys Arg Leu Met Leu Glu Ala Arg Gln
 245 250

<210> 6451

<211> 145

<212> PRT

<213> Enterobacter cloacae

<400> 6451

Arg Arg Leu Asn Val Asp Thr Ile Ala Gly Ile Val Arg Lys His Leu
 1 5 10 15
 Pro Glu Ala Thr His His Phe Pro Glu Asp Tyr Ile Thr Asp Arg Ser
 20 25 30
 Gln Arg Phe Met Ala Ser Glu Ile Ile Arg Glu Lys Leu Met Arg Phe
 35 40 45
 Leu Gly Ala Glu Leu Pro Tyr Ser Val Thr Val Glu Ile Glu Arg Phe

50		55		60
Gln Ser Asn Glu Arg Gly Gly Tyr Asp Ile Asn Gly Leu Ile Leu Val				
65		70		75
Glu Arg Glu Gly Gln Lys Lys Met Val Ile Gly Asn Lys Gly Ala Lys				
		85		90
Ile Lys Thr Ile Gly Ile Glu Ala Arg Lys Asp Met Gln Asp Met Phe				
		100		105
Glu Ala Pro Val His Leu Glu Leu Trp Val Lys Val Lys Ser Gly Trp				
		115		120
Ala Asp Asp Glu Arg Ala Leu Arg Ser Leu Gly Tyr Gly Glu Asp Gln				
130		135		140

145

<210> 6452

<211> 312

<212> PRT

<213> Enterobacter cloacae

<400> 6452

Cys Val Tyr Tyr Glu Leu Lys Ile Pro Glu Val Asn Asn Met Asn Leu				
1		5		10
Gly Ser Leu Val Ser Glu Thr Arg Asn Pro Gln Thr Met Asp Leu Asp				
		20		25
Ala Leu Ser Thr Leu Glu Leu Val Asn Arg Phe Asn Gln Gln Asp Thr				
		35		40
Leu Val Ala Leu Ala Val Lys Glu Thr Leu Pro Glu Val Ala Lys Ala				
		50		55
Val Asp Ala Ala Ala Asp Ala Leu Lys Ala Gly Gly Arg Ile Ile Tyr				
65		70		75
Met Gly Ala Gly Thr Ser Gly Arg Leu Gly Val Leu Asp Ala Ser Glu				
		85		90
Cys Pro Pro Thr Phe Gly Val Pro His Gly Leu Val Val Gly Leu Ile				
		100		105
Ala Gly Gly Pro Gly Ala Leu Leu Lys Ala Val Glu Gly Ala Glu Asp				
		115		120
Asn Lys Gln Leu Gly Glu Asp Asp Leu Arg Ala Leu Asn Leu Thr Ala				
		130		135
Gln Asp Leu Val Val Gly Leu Ala Ala Ser Gly Arg Thr Pro Tyr Val				
145		150		155
Ile Gly Gly Leu Glu Tyr Ala Arg Gln Thr Gly Cys Thr Thr Val Ala				
		165		170
Ile Ser Cys Asn Pro Gly Ser Pro Ile Ala Gln Val Ala Ala Ile Ala				
		180		185
Ile Ser Pro Val Val Gly Pro Glu Ala Leu Thr Gly Ser Thr Arg Leu				
		195		200
Lys Ser Gly Thr Ala Gln Lys Leu Val Leu Asn Met Ile Ser Thr Gly				
		210		215
Ala Met Val Lys Phe Gly Lys Val Tyr Gln Asn Leu Met Val Asp Met				
225		230		235
Gln Ala Thr Asn Val Lys Leu Val Asp Arg Ala Cys Arg Met Val Met				
		245		250
Glu Ala Thr Gly Ala Ser Arg Glu Glu Ala Glu Lys Val Leu Gln Gln				
		260		265
Thr Asp His Asp Val Lys Pro Ala Ile Leu Met Ile Leu Thr Gly Leu				
		275		280
Asp Ala Ala Ala Ala Arg Ala Arg Leu Glu Ala His His Gly Phe Leu				
		290		295
Arg Ala Ala Leu Glu His Gln				300
305		310		

<210> 6453
 <211> 458
 <212> PRT
 <213> Enterobacter cloacae

<400> 6453

Glu	Ala	Phe	Met	Asp	Lys	Thr	Ala	Ala	Leu	Ala	Ser	Asp	Ile	Leu	Leu
1			5						10					15	
Gly	Ile	Gly	Gly	Glu	Lys	Asn	Ile	Gln	Arg	Leu	Glu	Asn	Cys	Met	Thr
		20						25					30		
Arg	Val	Arg	Val	Glu	Val	Tyr	Asn	Asp	Glu	Lys	Leu	Asp	Leu	Thr	Arg
		35					40					45			
Leu	Lys	Gln	Leu	Pro	Gly	Val	Ser	Gly	Tyr	Val	Lys	Gln	Gly	Gln	Gln
	50					55					60				
His	Gln	Leu	Ile	Val	Gly	Pro	Gly	Lys	Ala	Ala	Gln	Val	Val	Asp	Ala
65					70				75					80	
Met	Arg	Ala	Leu	Met	Thr	Gly	Gly	Glu	Thr	Ala	Pro	Ala	Phe	Asp	Asp
			85					90						95	
Ala	Glu	Arg	Thr	Lys	Ala	Gln	Ala	Lys	Ala	Lys	Tyr	Lys	Ala	Pro	Met
			100					105					110		
Ser	Asp	Ala	Leu	Arg	Gln	Leu	Ala	Asn	Val	Phe	Ile	Pro	Leu	Ile	Pro
		115					120					125			
Ala	Phe	Ile	Ala	Ser	Gly	Leu	Ile	Thr	Gly	Ile	Ile	Asn	Ile	Leu	Lys
	130					135					140				
Arg	Pro	Asp	Ile	Val	Gly	Asn	Phe	Ala	Thr	Gln	Tyr	Pro	Asn	Leu	Leu
145					150					155				160	
Gly	Ile	Leu	Ala	Ile	Phe	Gly	Ser	Ala	Val	Phe	Ala	Ile	Met	Asn	Ile
			165						170					175	
Leu	Val	Gly	Val	Asn	Thr	Ala	Lys	Val	Phe	Gly	Gly	Ser	Leu	Ala	Met
			180					185					190		
Gly	Gly	Val	Met	Ala	Gly	Ile	Leu	Ser	Ser	Pro	Gln	Leu	Ala	Gln	Ile
		195					200					205			
Thr	Leu	Phe	Gly	Glu	Ala	Leu	Gln	Pro	Gly	Arg	Gly	Gly	Val	Ile	Ala
	210				215						220				
Val	Leu	Leu	Val	Val	Ile	Leu	Met	Cys	Trp	Ile	Glu	Lys	Lys	Leu	Arg
225					230					235				240	
Glu	Leu	Leu	Pro	Gly	Ser	Ile	Glu	Leu	Ile	Leu	Asn	Pro	Leu	Leu	Thr
			245						250					255	
Thr	Leu	Ile	Thr	Gly	Ser	Val	Ala	Ile	Val	Ala	Leu	Gln	Pro	Leu	Gly
			260				265						270		
Gly	Ala	Ile	Ser	Glu	Ala	Ile	Ala	His	Gly	Ala	Ser	Leu	Ala	Ile	Asp
		275					280					285			
Arg	Gly	Gly	Leu	Leu	Val	Gly	Ala	Val	Leu	Ser	Gly	Thr	Phe	Leu	Pro
	290					295					300				
Leu	Val	Leu	Thr	Gly	Leu	His	Gln	Gly	Leu	Val	Pro	Ile	His	Val	Glu
305					310					315				320	
Leu	Val	Gln	Ala	His	Gly	Tyr	Asn	Ala	Leu	Leu	Pro	Ile	Leu	Ser	Met
			325						330					335	
Ala	Gly	Val	Gly	Gln	Val	Gly	Ala	Ala	Ile	Ala	Val	Leu	Met	Lys	Thr
			340					345					350		
Arg	Asn	Ala	Arg	Leu	Lys	Lys	Val	Ile	Lys	Gly	Ala	Leu	Pro	Val	Gly
		355					360					365			
Leu	Leu	Gly	Ile	Gly	Glu	Pro	Leu	Ile	Phe	Gly	Val	Thr	Leu	Pro	Leu
	370					375					380				
Gly	Lys	Pro	Phe	Leu	Ala	Ala	Cys	Leu	Gly	Gly	Ala	Val	Gly	Gly	Ala
385					390					395				400	
Leu	Ile	Ser	Tyr	Trp	Lys	Val	Ala	Thr	Val	Ile	Thr	Phe	Gly	Ile	Ser
			405						410					415	
Gly	Leu	Pro	Leu	Ala	Leu	Thr	Ile	Val	Thr	Gly	Lys	Val	Met	Leu	Tyr
			420					425					430		
Leu	Leu	Gly	Tyr	Leu	Val	Ala	Val	Ile	Ala	Gly	Phe	Leu	Phe	Thr	Trp

435 440 445
 Leu Leu Gly Phe Asn Asp Pro Glu Glu
 450 455

<210> 6454
 <211> 213
 <212> PRT
 <213> Enterobacter cloacae

<400> 6454
 Gly Leu Ala Ser His Glu Arg Arg Val Val Phe Phe Asp Leu Asp Gly
 1 5 10 15
 Thr Leu His Gln Asp Met Phe Gly Thr Phe Met Arg Tyr Leu Leu
 20 25 30
 Arg Arg Gln Pro Leu Asn Ala Leu Leu Val Leu Pro Leu Leu Pro Val
 35 40 45
 Ile Gly Ile Ala Leu Leu Val Lys Gly Arg Ala Ala Arg Trp Pro Met
 50 55 60
 Ser Leu Leu Leu Trp Gly Cys Thr Phe Gly His Ser Glu Ala Arg Leu
 65 70 75 80
 Lys Gln Leu Glu Gln Asp Phe Ala His Trp Phe Arg Gly His Val Ala
 85 90 95
 Ala Phe Pro Val Val Gln Ala Arg Leu Thr Ser Tyr Leu Asp Ala Asn
 100 105 110
 Asp Ala Asp Ile Trp Leu Ile Thr Gly Ser Pro Gln Thr Leu Val Glu
 115 120 125
 Gln Val Tyr Phe Asp Thr Pro Trp Leu Pro Arg Val Asn Leu Ile Ala
 130 135 140
 Thr Gln Ile Ala Arg Gly Tyr Gly Gly Trp Val Leu Thr Leu Arg Cys
 145 150 155 160
 Leu Gly His Glu Lys Val Val Gln Leu Glu Lys Arg Ile Gly Thr Pro
 165 170 175
 Leu Arg Leu Tyr Ser Gly Tyr Ser Asp Ser Lys Gln Asp Asn Pro Leu
 180 185 190
 Leu Tyr Phe Cys Gln His Arg Trp Arg Val Thr Pro Leu Gly Glu Leu
 195 200 205
 Gln Gln Leu Glu
 210

<210> 6455
 <211> 188
 <212> PRT
 <213> Enterobacter cloacae

<400> 6455
 Ser Tyr Leu Tyr Arg Leu Cys Ile Met Pro Pro Ala Phe Arg Leu Glu
 1 5 10 15
 Tyr Gln Pro Leu Ser Asn Pro Glu His Asn His Glu Tyr Trp Met Arg
 20 25 30
 His Ala Leu Ala Leu Ala Gln Arg Ala Trp Glu Glu Gly Glu Val Pro
 35 40 45
 Val Gly Ala Val Leu Val His Asn Asn Gln Val Ile Gly Glu Gly Trp
 50 55 60
 Asn Arg Pro Ile Gly Arg His Asp Pro Thr Ala His Ala Glu Ile Met
 65 70 75 80
 Ala Leu Arg Gln Gly Gly Leu Val Leu Gln Asn Tyr Arg Leu Leu Asp
 85 90 95
 Thr Thr Leu Tyr Val Thr Leu Glu Pro Cys Val Met Cys Ser Gly Ala
 100 105 110
 Met Val His Ser Arg Ile Gly Thr Leu Val Phe Gly Ala Arg Asp Glu
 115 120 125

Lys Thr Gly Ala Ala Gly Ser Leu Met Asp Val Leu Gly His Pro Gly
 130 135 140
 Met Asn His Gln Val Lys Thr Ile Gly Gly Val Leu Ala Pro Glu Cys
 145 150 155 160
 Ser Gly Leu Leu Ser Asp Phe Phe Arg Met Arg Arg Gln Gln Lys Lys
 165 170 175
 Gln Gln Lys Ala Glu Leu Lys Pro Gln Gly Asp
 180 185

<210> 6456

<211> 181

<212> PRT

<213> Enterobacter cloacae

<400> 6456

Arg Arg Ser Arg Pro Asp Leu Ser Gln Arg Lys Ser His Arg Cys Pro
 1 5 10 15
 Ala Gly Asn Ala Arg Ala Glu His Arg Pro Arg Tyr His Trp Pro Cys
 20 25 30
 Gly Asp Glu Arg Ser Glu Arg Arg Gly Phe Arg Asp Glu Ala Ser Asp
 35 40 45
 Ala Gly Ser Ala Ser Val Met Ala Ile Leu Gly Leu Gly Thr Asp Ile
 50 55 60
 Val Glu Thr Ala Arg Ile Glu Ala Val Ile Ala Arg Ser Gly Asp Arg
 65 70 75 80
 Leu Ala Arg Arg Val Leu Ser Asp Asn Glu Trp Ala Ile Trp Glu Ala
 85 90 95
 His Gln Gln Pro Val Arg Phe Leu Ala Lys Arg Phe Ala Val Lys Glu
 100 105 110
 Ala Ala Ala Lys Ala Phe Gly Thr Gly Ile Arg Asn Gly Leu Ala Phe
 115 120 125
 Asn Gln Phe Glu Val Phe Asn Asp Glu Leu Gly Lys Pro Arg Leu Arg
 130 135 140
 Leu Trp Gly Glu Ala Leu Lys Leu Ala Glu Lys Leu Gly Val Ala His
 145 150 155 160
 Met His Val Thr Leu Ala Asp Glu Arg His Tyr Ala Cys Ala Thr Val
 165 170 175
 Ile Ile Glu Gly
 180

<210> 6457

<211> 96

<212> PRT

<213> Enterobacter cloacae

<400> 6457

Cys Arg Pro Val Ser Thr Asn Gly Arg Lys Val Pro Asp Ser Thr Ala
 1 5 10 15
 Pro Thr Ser Ser Pro Pro Arg Ser Ile Ala Arg Asp Ala Pro Trp Ala
 20 25 30
 Met Ala Ser Glu Ile Ala Pro Pro Asn Gly Cys Ser Ala Thr Ile Ala
 35 40 45
 Thr Leu Pro Val Ile Asn Val Val Ser Ser Gly Leu Arg Ile Ser Ser
 50 55 60
 Ile Glu Pro Gly Ser Asn Ser Arg Ser Phe Phe Ser Ile Gln His Ile
 65 70 75 80
 Arg Met Thr Thr Ser Ser Thr Ala Ile Thr Pro Pro Arg Pro Gly
 85 90 95

<210> 6458

<211> 297

<212> PRT

<213> Enterobacter cloacae

<400> 6458

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Phe Val Phe Ala Arg Val Ile Thr Phe Ser Pro Gly Asp Arg Met Asn
1      5      10      15
Cys Leu Ile Arg Ile Arg Gln Arg Tyr Ala Gly Phe Ala Gln Ser Asp
      20      25      30
Lys Lys Leu Ala Asp Tyr Leu Leu Ser Gln Pro Asp Arg Ala Arg His
      35      40      45
Leu Ser Ser Gln Gln Leu Ala Gly Glu Ala Gly Val Ser Gln Ser Ser
      50      55      60
Val Val Lys Phe Ala Gln Lys Ile Gly Tyr Lys Gly Phe Pro Ala Leu
65      70      75      80
Lys Leu Ala Ile Ser Glu Ala Leu Val Ser Asn Pro Asn Pro Gln Ser
      85      90      95
Met Pro Val His Asn Gln Ile Arg Gly Asp Asp Pro Met Arg Leu Val
      100      105      110
Gly Glu Lys Leu Ile Lys Glu Asn Val Ala Ala Met His Ala Thr Leu
      115      120      125
Asp Val Asn Thr Glu Glu Lys Leu Leu Glu Ser Val Ala Met Leu Arg
      130      135      140
Asp Ala Arg Arg Ile Val Leu Thr Gly Ile Gly Ala Ser Gly Leu Val
145      150      155      160
Ala Arg Asn Phe Gly Trp Lys Leu Thr Lys Ile Gly Tyr Asn Ala Ile
      165      170      175
Val Glu Gln Asp Met His Ala Leu Leu Ala Thr Val Gln Ala Met Asp
      180      185      190
Pro Asp Asp Leu Leu Leu Ala Ile Ser Tyr Ser Gly Glu Arg Arg Glu
      195      200      205
Ile Asn Met Ala Thr Asp Glu Ala Leu Arg Val Gly Gly Lys Ile Leu
      210      215      220
Ala Ile Thr Gly Phe Ser Pro Asn Ala Leu Gln Gln Arg Ala Thr Arg
225      230      235      240
Cys Leu Tyr Thr Ile Ala Glu Glu Gln Ala Thr Arg Ser Ala Ala Ile
      245      250      255
Ser Ser Thr Ser Ala Gln Met Met Leu Thr Asp Leu Leu Phe Met Ala
      260      265      270
Leu Val Gln Gln Asp Leu Glu Arg Ala Pro Glu Arg Ile Arg His Ser
      275      280      285
Glu Glu Leu Val Lys Lys Leu Val
      290      295

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<210> 6459

<211> 273

<212> PRT

<213> Enterobacter cloacae

<400> 6459

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Ala Thr Val Arg Glu Lys Ile Glu Ser Leu Lys Lys Asp Pro Val Arg
1      5      10      15
Leu Glu Glu Lys Tyr Leu Gly His Gly Asp Asp Phe Asp Tyr Val Asp
      20      25      30
Thr Arg Thr Phe Leu Arg Ala Val Asp Ser Val Leu Pro Asp Leu Gln
      35      40      45
Pro Leu Phe Glu Lys Tyr Ala Gln Glu Ile Asp Trp Lys Leu Leu Ala
      50      55      60
Ala Ile Ser Tyr Gln Glu Ser His Trp Asp Ala Gln Ala Thr Ser Pro
65      70      75      80
Thr Gly Val Arg Gly Leu Met Met Leu Thr Lys Asn Thr Ala Gln Ser
      85      90      95

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Leu Gly Ile Ser Asp Arg Thr Asp Ala Glu Gln Ser Ile Ser Gly Gly
 100 105 110
 Ala Gln Tyr Leu Gln Asp Met Met Ala Lys Val Pro Glu Thr Val Pro
 115 120 125
 Glu Gly Glu Arg Ile Trp Phe Ala Leu Ala Ala Tyr Asn Met Gly Tyr
 130 135 140
 Ala His Met Leu Asp Ala Arg Ala Leu Thr Ala Lys Thr Lys Gly Asn
 145 150 155 160
 Pro Asp Ser Trp Ser Asp Val Lys Gln Arg Leu Pro Leu Leu Ser Gln
 165 170 175
 Lys Gln Trp Tyr Gln Lys Leu Thr Tyr Gly Tyr Ala Arg Gly His Glu
 180 185 190
 Ala Tyr Ala Tyr Val Glu Asn Ile Arg Lys Tyr Gln Ile Ser Leu Val
 195 200 205
 Gly Tyr Leu Leu Glu Lys Glu Lys Glu Ala Ala Glu Ala Gln Gln Leu
 210 215 220
 Ala Glu Ser Tyr Pro Val Val Ala Pro Glu Glu Leu Asn His Pro Ala
 225 230 235 240
 Val Ser Ile Leu Pro Phe Val Ala Phe Ser Ala Ala Asp Ala Phe Glu
 245 250 255
 Lys Ser His Leu Thr Asp Pro Asn Ile Leu Val Gln Val Pro Arg Arg
 260 265 270

<210> 6460
 <211> 102
 <212> PRT
 <213> Enterobacter cloacae

<400> 6460
 Ala Tyr Asn Ala Arg Pro Val Cys Asp Val Ser Glu Asn Phe Leu Met
 1 5 10 15
 Ala Leu Leu Ile Thr Lys Lys Cys Ile Asn Cys Asp Met Cys Glu Pro
 20 25 30
 Glu Cys Pro Asn Glu Ala Ile Ser Met Gly Asp Ser Ile Tyr Glu Ile
 35 40 45
 Asn Ser Asp Arg Cys Thr Glu Cys Ile Gly His Tyr Glu Thr Pro Thr
 50 55 60
 Cys Gln Lys Val Cys Pro Ile Pro Asn Thr Ile Leu Lys Asp Pro Ala
 65 70 75 80
 His Val Glu Asn Glu Glu Gln Leu Trp Asp Lys Phe Val Leu Met His
 85 90 95
 His Ala Asp Lys Ile
 100

<210> 6461
 <211> 516
 <212> PRT
 <213> Enterobacter cloacae

<400> 6461
 Gln Asn Ala Asp Phe Phe Gly Thr Asn Leu Ala Asn Phe Leu Pro Asp
 1 5 10 15
 Gly Ala Phe Cys Ser Asp Cys Ser Pro Gln Ser Phe Thr Ile Glu Thr
 20 25 30
 Ser Thr Phe Asn Arg Met Arg Leu Leu Val Ser Asp Ser Ala Ala Arg
 35 40 45
 Pro Thr Phe Leu Phe His Asp Tyr Glu Thr Phe Gly Thr His Pro Ala
 50 55 60
 Leu Asp Arg Pro Ala Gln Phe Ala Ala Ile Arg Thr Asp Asp Glu Phe

65					70				75					80	
Asn	Val	Ile	Gly	Glu	Pro	Glu	Val	Phe	Tyr	Cys	Lys	Pro	Ala	Asp	Asp
				85					90					95	
Tyr	Leu	Pro	Gln	Pro	Gly	Ala	Val	Met	Val	Thr	Gly	Ile	Thr	Pro	Gln
			100					105					110		
Glu	Ala	Arg	Asp	Lys	Gly	Val	Ser	Glu	Ala	Glu	Phe	Ala	Arg	Arg	Ile
		115					120					125			
His	Asp	Leu	Phe	Thr	Val	Pro	Asn	Thr	Cys	Val	Val	Gly	Tyr	Asn	Asn
	130					135					140				
Ile	Arg	Phe	Asp	Asp	Glu	Val	Thr	Arg	Asn	Ile	Phe	Tyr	Arg	Asn	Phe
145					150					155					160
Tyr	Asp	Pro	Tyr	Ala	Trp	Ser	Trp	Gln	Asn	Arg	Asn	Ser	Arg	Trp	Asp
				165					170					175	
Leu	Leu	Asp	Ile	Met	Arg	Ala	Cys	Tyr	Ala	Leu	Arg	Pro	Glu	Gly	Ile
			180					185					190		
Asn	Trp	Arg	Glu	Asn	Asp	Asp	Gly	Leu	Pro	Ser	Phe	Arg	Leu	Glu	His
	195						200					205			
Leu	Thr	Arg	Ala	Asn	Gly	Ile	Glu	His	Ser	Asn	Ala	His	Asp	Ala	Met
	210				215						220				
Ala	Asp	Val	Tyr	Ala	Thr	Ile	Ala	Met	Ala	Lys	Leu	Val	Lys	Thr	Ala
225					230					235					240
Gln	Pro	Arg	Leu	Phe	Glu	Tyr	Leu	Leu	Ser	His	Arg	Ser	Lys	Gln	Lys
				245					250					255	
Leu	Met	Thr	Leu	Ile	Asp	Val	Pro	Gln	Met	Lys	Pro	Leu	Val	His	Ile
			260					265					270		
Ser	Gly	Met	Phe	Gly	Ala	Trp	Arg	Gly	Asn	Thr	Ser	Trp	Val	Ala	Pro
	275						280					285			
Leu	Ala	Trp	His	Pro	Asp	Asn	Arg	Asn	Ala	Val	Ile	Met	Val	Asp	Leu
	290					295					300				
Ala	Gly	Asp	Ile	Ser	Pro	Leu	Leu	Glu	Leu	Asp	Ser	Asp	Thr	Leu	Arg
305					310					315					320
Glu	Arg	Leu	Tyr	Thr	Pro	Lys	Glu	Ala	Leu	Gly	Asp	Leu	Pro	Ala	Val
				325					330					335	
Pro	Val	Lys	Leu	Val	His	Ile	Asn	Lys	Cys	Pro	Val	Leu	Ala	Gln	Ala
				340				345					350		
Asn	Thr	Leu	Arg	Pro	Glu	Asp	Ala	Asp	Arg	Leu	Gly	Ile	Asn	Arg	Gln
		355					360					365			
His	Cys	Leu	Asp	Asn	Leu	Lys	Val	Leu	Arg	Asp	Asn	Pro	Gln	Val	Arg
	370					375					380				
Glu	Lys	Val	Val	Ala	Ile	Phe	Ala	Glu	Ala	Glu	Pro	Phe	Val	Pro	Ser
385					390					395					400
Glu	Asn	Val	Asp	Ala	Gln	Leu	Tyr	Asn	Gly	Phe	Phe	Ser	Asp	Ala	Asp
				405					410					415	
Arg	Ala	Ala	Met	Asn	Ile	Val	Leu	Gln	Thr	Asp	Pro	Arg	Asn	Leu	Pro
			420					425					430		
Ala	Leu	Asp	Ile	Thr	Phe	Ala	Asp	Lys	Arg	Ile	Glu	Lys	Leu	Met	Phe
		435					440				445				
Asn	Tyr	Arg	Ala	Arg	Asn	Tyr	Pro	Gly	Thr	Leu	Asp	Glu	Ala	Glu	Gln
	450					455					460				
Glu	Arg	Trp	Leu	Gln	His	Arg	Arg	Ser	Val	Phe	Thr	Pro	Glu	Phe	Leu
465					470					475					480
Asn	Ser	Tyr	Ala	Gln	Glu	Leu	Glu	Met	Leu	Tyr	Gly	Gln	Tyr	Glu	Gly
				485					490					495	
Asn	Ala	Glu	Lys	Gln	Ala	Leu	Leu	Lys	Ala	Leu	Phe	Gln	Tyr	Ala	Gln
			500					505					510		
Glu	Ile	Val													
		515													

<210> 6462

<211> 389

<212> PRT

<213> Enterobacter cloacae

<400> 6462

Ser Thr Lys Trp Asp Asn Pro Ala Lys Arg Arg Val Phe Gln Pro Gly
 1 5 10 15
 Ala Ile His Pro Ala Glu Asn Thr Val Gln Leu Trp Phe Ala Val Glu
 20 25 30
 Leu Glu Thr Gly Val Arg Pro Asp Lys Ser Leu Thr Pro Phe Glu Ile
 35 40 45
 Arg Leu Tyr Lys His Tyr Arg Val Val His Gly Cys Arg Ile Ala Leu
 50 55 60
 Ala Phe Val Leu Thr Phe Val Leu Val Arg Leu Leu Asp Ile Pro Glu
 65 70 75 80
 Gly Thr Trp Pro Leu Ile Thr Leu Val Val Met Gly Pro Ile Ser
 85 90 95
 Phe Trp Gly Asn Val Val Pro Arg Ala Phe Glu Arg Ile Gly Gly Thr
 100 105 110
 Val Leu Gly Ser Ala Leu Gly Leu Ile Ala Leu Lys Leu Glu Leu Ile
 115 120 125
 Ser Phe Pro Phe Met Leu Leu Trp Cys Ala Val Ala Met Phe Leu Cys
 130 135 140
 Gly Trp Leu Thr Leu Gly Lys Lys Pro Tyr Gln Ala Leu Leu Ile Gly
 145 150 155 160
 Ile Thr Leu Ala Val Val Val Gly Ala Pro Ala Gly Asp Met Thr Thr
 165 170 175
 Ala Leu Trp Arg Ser Gly Asp Val Ile Leu Gly Ser Leu Leu Ala Met
 180 185 190
 Leu Phe Thr Gly Ile Trp Pro Gln Arg Ala Phe Leu His Trp Arg Ile
 195 200 205
 Gln Met Ala Asn Tyr Val Thr Ala Phe Asn Arg Val Tyr Gln Ala Gly
 210 215 220
 Phe Ser Pro Asn Leu Ile Glu Arg Pro Arg Leu Glu Lys His Leu Gln
 225 230 235 240
 Lys Ile Leu Asn Asp Val Val Lys Met Arg Gly Leu Ile Thr Pro Ala
 245 250 255
 Ser Lys Glu Thr His Ile Gln Lys Ala Ile Phe Glu Ala Ile Gln Thr
 260 265 270
 Val Ser Arg Asn Leu Val Cys Met Leu Glu Leu Gln Ile Asn Ala His
 275 280 285
 Trp Ala Ser Arg Pro Ser His Leu Leu Met Leu Asn Ala His Thr Leu
 290 295 300
 Lys Glu Thr Gln Gln Met Thr Gln Gln Thr Leu Leu Thr Ile Ala His
 305 310 315 320
 Ala Leu Tyr Glu Gly Asn Pro Gln Pro Ile Arg Ala Asn Ser Glu Arg
 325 330 335
 Leu Asn Glu Ile Val Ala Glu Leu Lys Gln Leu Met Asn Glu Arg Gln
 340 345 350
 Gly Asp Asn Val Ala Glu Thr Pro Ile His Gly Tyr Val Trp Leu Ser
 355 360 365
 Met Glu Leu Ala Arg Gln Leu Glu Leu Leu Ser Gln Leu Ile Cys Arg
 370 375 380
 Ala Leu Arg Lys
 385

<210> 6463

<211> 128

<212> PRT

<213> Enterobacter cloacae

<400> 6463

Asn Gly Cys Phe Asn Glu Ser Glu Ser His Ile Ile Arg Gly Val Lys

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<210> 6464
<211> 310
<212> PRT
<213> Enterobacter cloacae
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[illegible]

305

310

<210> 6465

<211> 394

<212> PRT

<213> Enterobacter cloacae

<400> 6465

Pro	Glu	Asp	Ile	Pro	Leu	Lys	Arg	Arg	Leu	Phe	Ile	Ala	Val	Ser	Leu
1				5					10					15	
Leu	Ala	Ser	Ser	Ile	Ser	Ser	Ala	Leu	Ala	Ala	Glu	Pro	Leu	Asp	Phe
			20					25					30		
Ser	Pro	Gln	Pro	Pro	Ala	Ile	Gln	Ala	Gly	Ser	Trp	Val	Leu	Met	Asp
		35					40					45			
Tyr	Thr	Thr	Gly	Gln	Ile	Leu	Thr	Ala	Gly	Asn	Glu	His	Gln	Gln	Arg
	50					55					60				
Asn	Pro	Ala	Ser	Leu	Thr	Lys	Leu	Met	Thr	Gly	Tyr	Val	Val	Asp	Arg
65					70					75				80	
Ala	Ile	Asp	Ser	His	Arg	Ile	Ser	Pro	Asp	Asp	Ile	Val	Thr	Val	Gly
				85					90					95	
Arg	Asp	Ala	Trp	Ala	Lys	Gly	Asn	Ser	Val	Phe	Asp	Gly	Ser	Ser	Leu
			100					105					110		
Met	Phe	Leu	Lys	Glu	Gly	Asp	Arg	Val	Ser	Val	Arg	Asp	Leu	Ser	Arg
		115				120						125			
Gly	Leu	Ile	Val	Asp	Ser	Gly	Asn	Asp	Ala	Cys	Val	Ala	Leu	Ala	Asp
	130					135					140				
His	Val	Ala	Gly	Gly	Gln	Pro	Gln	Phe	Val	Arg	Met	Met	Asn	Asp	Tyr
145					150					155				160	
Val	Glu	Lys	Leu	Asn	Leu	Arg	Asp	Thr	His	Phe	Glu	Thr	Val	His	Gly
				165					170					175	
Leu	Asp	Ala	Pro	Gly	Gln	His	Ser	Ser	Ala	Tyr	Asp	Leu	Ala	Val	Leu
			180					185					190		
Ser	Arg	Ala	Ile	Ile	His	Gly	Glu	Pro	Glu	Phe	Tyr	His	Met	Tyr	Ser
		195				200						205			
Glu	Lys	Ser	Leu	Thr	Trp	Asn	Gly	Ile	Thr	Gln	Gln	Asn	Arg	Asn	Gly
	210					215					220				
Leu	Leu	Trp	Asp	Lys	Thr	Met	Asn	Val	Asp	Gly	Leu	Lys	Thr	Gly	His
225					230					235				240	
Thr	Ser	Gly	Ala	Gly	Phe	Asn	Leu	Ile	Ala	Ser	Ala	Val	Asp	Gly	Gln
				245					250					255	
Arg	Arg	Leu	Ile	Ala	Val	Val	Met	Gly	Ala	Asp	Thr	Pro	Lys	Gly	Arg
		260						265					270		
Glu	Asp	Gln	Ala	Arg	Lys	Leu	Leu	His	Trp	Gly	Gln	Gln	Asn	Phe	Asp
	275					280						285			
Thr	Val	Gln	Ile	Leu	His	Asn	Gly	Lys	Lys	Val	Gly	Thr	Glu	Arg	Ile
	290					295					300				
Trp	Tyr	Gly	Asp	Lys	Glu	Gln	Ile	Ala	Leu	Gly	Thr	Asp	Gln	Asp	Phe
305				310						315				320	
Trp	Leu	Ala	Leu	Pro	Lys	Ser	Glu	Val	Pro	Asn	Ile	Lys	Ala	Lys	Tyr
				325					330					335	
Val	Met	Asp	Lys	Lys	Glu	Leu	Glu	Ala	Pro	Ile	Ala	Ala	His	Gln	Arg
			340					345					350		
Val	Gly	Glu	Ile	Gln	Leu	Tyr	Asp	Arg	Asp	Lys	Val	Val	Ala	His	Trp
	355						360					365			
Pro	Leu	Val	Thr	Leu	Glu	Ser	Val	Glu	Lys	Gly	Gly	Leu	Phe	Ser	Arg
	370					375					380				
Leu	Gly	Asp	Tyr	Leu	His	His	Lys	Leu							
385					390										

<210> 6466

<211> 457

<212> PRT

<213> Enterobacter cloacae

<400> 6466

Arg Arg Ile Thr Met Ser His Asn Ala Thr Pro Asn Thr Ser Arg Val
 1 5 10 15
 Glu Leu Arg Lys Thr Leu Thr Leu Ile Pro Val Val Met Met Gly Leu
 20 25 30
 Ala Tyr Met Gln Pro Met Thr Leu Phe Asp Thr Phe Gly Ile Val Ser
 35 40 45
 Gly Leu Thr Asp Gly His Val Pro Thr Ala Tyr Gly Phe Ala Leu Ile
 50 55 60
 Ala Ile Leu Phe Thr Ala Leu Ser Tyr Gly Lys Leu Val Arg Arg Tyr
 65 70 75 80
 Pro Ser Ala Gly Ser Ala Tyr Thr Tyr Ala Gln Lys Ser Ile Ser Pro
 85 90 95
 Thr Val Gly Phe Met Val Gly Trp Ser Ser Leu Leu Asp Tyr Leu Phe
 100 105 110
 Ala Pro Met Ile Asn Ile Leu Leu Ala Lys Ile Tyr Phe Glu Ala Leu
 115 120 125
 Val Pro Ser Ile Pro Ser Trp Met Phe Val Val Ala Leu Val Ala Phe
 130 135 140
 Met Thr Ala Phe Asn Leu Arg Ser Ile Lys Ser Val Ala Asn Phe Asn
 145 150 155 160
 Ser Val Ile Val Val Leu Gln Val Val Leu Ile Ala Val Ile Leu Gly
 165 170 175
 Met Val Ile Tyr Gly Val Phe His Gly Glu Gly Ala Gly Thr Leu Ala
 180 185 190
 Ser Ser Lys Pro Phe Trp Ser Gly Asp Ala His Val Ile Pro Met Ile
 195 200 205
 Thr Gly Ala Thr Ile Leu Cys Phe Ser Phe Thr Gly Phe Asp Gly Ile
 210 215 220
 Ser Asn Leu Ser Glu Glu Thr Lys Asp Ala Glu Arg Val Ile Pro Arg
 225 230 235 240
 Ala Ile Phe Leu Thr Ala Leu Ile Gly Gly Leu Ile Phe Ile Phe Ser
 245 250 255
 Thr Tyr Phe Leu Gln Leu Tyr Phe Pro Asp Ile Ser Arg Phe Lys Asp
 260 265 270
 Pro Asp Ala Ser Gln Pro Glu Ile Met Leu Tyr Val Ala Gly Lys Ala
 275 280 285
 Phe Gln Val Gly Ala Leu Ile Phe Ser Thr Ile Thr Val Leu Ala Ser
 290 295 300
 Gly Met Ala Ala His Ala Gly Val Ala Arg Leu Met Tyr Val Met Gly
 305 310 315 320
 Arg Asp Gly Val Phe Pro Lys Ser Phe Phe Gly Tyr Val His Pro Thr
 325 330 335
 Trp Arg Thr Pro Ala Met Asn Ile Ile Leu Val Gly Ala Ile Ala Leu
 340 345 350
 Leu Ala Ile Asn Phe Asp Leu Val Met Ala Thr Ala Leu Ile Asn Phe
 355 360 365
 Gly Ala Leu Val Ala Phe Thr Phe Val Asn Leu Ser Val Ile Ser Gln
 370 375 380
 Phe Trp Ile Arg Glu Lys Arg Asn Lys Thr Leu Lys Asp His Phe Gln
 385 390 395 400
 Tyr Leu Phe Leu Pro Met Cys Gly Ala Met Thr Val Gly Ala Leu Trp
 405 410 415
 Val Asn Leu Glu Glu Ser Ser Met Val Leu Gly Leu Ile Trp Ala Gly
 420 425 430
 Ile Gly Leu Val Tyr Leu Ala Cys Val Thr Lys Ser Phe Arg Asn Pro
 435 440 445
 Val Pro Gln Tyr Glu Asp Val Ala

450

455

<210> 6467

<211> 175

<212> PRT

<213> Enterobacter cloacae

<400> 6467

```

Ser Arg Phe Cys Phe Thr Val Tyr Ile Tyr Thr Val Ile Asn Gly Gly
1          5          10          15
Ser Met Asp Tyr Ser Ile Arg Gln Gln Gln Lys Arg Thr Ile Ala Gly
20          25          30
Phe His Leu Val Gly Pro Trp Glu Lys Thr Val Lys Gln Gly Phe Glu
35          40          45
Gln Leu Val Met Trp Val Asp Gly Arg His Ile Gln Pro Gln Glu Trp
50          55          60
Val Ala Val Tyr Tyr Asp Asn Pro Asp Asp Val Pro Ala Glu Lys Leu
65          70          75          80
Arg Cys Val Thr Ala Val Thr Val Val Asp Val Phe Thr Ile Pro Glu
85          90          95
Asn Ser Glu Gly Val Met Met Thr Glu Ile Ala Ala Gly Glu Tyr Ala
100         105         110
Ile Ala Ala Arg Val Glu Asn His Asp Phe Ala Thr Pro Trp Tyr
115         120         125
Gln Phe Phe Asn Ser Leu Leu Glu Asp Ser Lys Phe Gln Ile Ala Ala
130         135         140
Lys Pro Cys Phe Glu Arg Tyr Leu Asn Asp Gly Asn Ala Asp Gly Tyr
145         150         155         160
Trp Asp Ile Glu Met Phe Val Pro Val Glu His Lys Val Gly
165         170         175

```

<210> 6468

<211> 65

<212> PRT

<213> Enterobacter cloacae

<400> 6468

```

Ser Lys Asn His Leu Met Met Lys Leu Asn Ser Gly Met Ser Cys Asp
1          5          10          15
Phe Cys Gln Ser Ser Leu Leu Glu Asn Pro Val Lys Val Ser Arg Lys
20          25          30
Asn Arg Ile Ala Ala Thr Met Ser Thr Pro Arg Asn Ala Pro Lys Gln
35          40          45
Met Pro Ser Thr Leu Ser Val Pro Asp Arg Pro Val Phe Ser Thr Ser
50          55          60

```

65

<210> 6469

<211> 273

<212> PRT

<213> Enterobacter cloacae

<400> 6469

```

Ala Lys Arg Phe Ala Trp Arg Ala Glu Ala Asn Leu Arg Pro Glu Arg
1          5          10          15
Cys Gly Asp Glu Leu Gln Arg Gln Leu Ile Glu Ile Ile Pro Ser Pro
20          25          30
Trp Pro Ser Pro Gln Arg Gly Glu Gly Ser Val Tyr Ser Leu Ser Leu
35          40          45
Glu Gly Glu Gly Arg Gly Glu Gly Glu Ala Asp Val His Arg Asn Val

```

50	55	60
Asn Gly Ala Val Ala Leu Ser Ile Phe Ser Ala Pro Phe Leu Phe Thr		
65	70	75
Arg Gly Lys Glu Ile Pro Thr Gln Thr Phe Ser Phe Ser Val Arg Ile		
	85	90
Arg Pro Glu Leu Asp Asp Arg Ala Phe Asn Arg Gly Thr His Met Val		
	100	105
Trp Ile Asp Tyr Ala Ile Ile Ala Val Ile Gly Phe Ser Cys Leu Val		
	115	120
Ser Leu Ile Arg Gly Phe Val Arg Glu Ala Leu Ser Leu Val Thr Trp		
	130	135
Gly Cys Ala Phe Phe Val Ala Ser His Tyr Tyr Thr Tyr Leu Ser Val		
145	150	155
Trp Phe Thr Gly Phe Glu Asp Glu Leu Val Arg Asn Gly Ile Ala Ile		
	165	170
Ala Val Leu Phe Ile Ala Thr Leu Ile Val Gly Ala Ile Val Asn Tyr		
	180	185
Val Ile Gly Gln Leu Val Glu Lys Thr Gly Leu Ser Gly Thr Asp Arg		
	195	200
Val Leu Gly Ile Cys Phe Gly Ala Leu Arg Gly Val Leu Ile Val Ala		
	210	215
Ala Ile Leu Phe Phe Leu Asp Thr Phe Thr Gly Phe Ser Lys Ser Glu		
225	230	235
Asp Trp Gln Lys Ser Gln Leu Ile Pro Glu Phe Ser Phe Ile Ile Arg		
	245	250
Trp Phe Phe Asp Tyr Leu Gln Ser Ser Ser Ser Phe Leu Pro Arg Ala		
	260	265
		270

<210> 6470

<211> 517

<212> PRT

<213> Enterobacter cloacae

<400> 6470

Thr Leu Arg Cys Gly Leu Thr Arg Lys Arg Arg Met Cys Gly Ile Val	
1	5
Gly Ile Ala Gly Phe Met Pro Val Asn Gln Ser Ile Tyr Asp Ala Leu	
	20
Thr Val Leu Gln His Arg Gly Gln Asp Ala Ala Gly Ile Ile Thr Ile	
	35
Asp Ala Asn Asn Cys Phe Arg Leu Arg Lys Ala Asn Gly Leu Val Asn	
	50
Asp Val Phe Glu Ala Arg His Met Gln Arg Leu Gln Gly Asn Met Gly	
65	70
Ile Gly His Val Arg Tyr Pro Thr Ala Gly Ser Ser Ser Ala Ser Glu	
	85
Ala Gln Pro Phe Tyr Val Asn Ser Pro Tyr Gly Ile Thr Leu Ala His	
	100
Asn Gly Asn Leu Thr Asn Ala His Glu Leu Arg Lys Lys Leu Phe Glu	
	115
Glu Lys Arg Arg His Ile Asn Thr Thr Ser Asp Ser Glu Ile Leu Leu	
	130
Asn Ile Phe Ala Ser Glu Leu Asp Asn Phe Arg His Tyr Pro Leu Glu	
145	150
Ala Asp Asn Ile Phe Ala Ala Val Ala Ala Thr Asn Arg Gln Ile Arg	
	165
Gly Ala Tyr Ala Cys Val Ala Met Ile Ile Gly His Gly Met Val Ala	
	180
Phe Arg Asp Pro Asn Gly Ile Arg Pro Leu Val Leu Gly Lys Arg Asp	
	185
	190


```
<210> 6472
<211> 154
<212> PRT
<213> Enterobacter cloacae
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```
<210> 6473
<211> 329
<212> PRT
<213> Enterobacter cloacae
```

```

<400> 6473
Phe Ala Phe Ser Phe Phe Leu Phe Pro Val Arg Ser Ala Asp Leu Leu
1      5      10      15
Ser Phe Thr Ile Lys Ala Val Ser Gln Arg Phe Ile Asn Ile Phe Asn
20      25      30
Val Val Val Leu Ser Arg Arg Gln Cys Gly Ile Arg Pro Ala Arg Ala
35      40      45
Ala Cys Asn Thr Thr His Asn Ile Asn His Asn Lys Ile Thr Val Leu
50      55      60

```

Glu Gly Lys Cys Met Lys Lys Thr Val Leu Ala Leu Ser Leu Leu Val
 65 70 75 80
 Gly Leu Ser Ala Ala Ser Ser Tyr Ala Ala Leu Pro Gln Thr Val
 85 90 95
 Arg Ile Gly Thr Asp Ala Thr Tyr Ala Pro Phe Ser Ser Lys Asp Ala
 100 105 110
 Lys Gly Asp Phe Val Gly Phe Asp Ile Asp Leu Gly Asn Glu Met Cys
 115 120 125
 Lys Arg Leu Glu Val Lys Cys Thr Trp Val Gly Ser Asp Phe Asp Ala
 130 135 140
 Leu Ile Pro Ser Leu Lys Ala Lys Lys Ile Asp Ala Ile Ile Ser Ser
 145 150 155 160
 Leu Ser Ile Thr Glu Lys Arg Gln Gln Glu Ile Ala Phe Ser Glu Lys
 165 170 175
 Leu Tyr Ala Ala Asp Ser Arg Leu Ile Ala Ala Lys Gly Ser Pro Ile
 180 185 190
 Gln Pro Thr Ile Asp Ser Leu Lys Gly Lys His Val Gly Val Leu Gln
 195 200 205
 Gly Ser Thr Gln Glu Gly Phe Ala Asn Ala Asn Trp Arg Glu Lys Gly
 210 215 220
 Val Asp Val Val Ala Tyr Gln Asn Gln Asp Leu Ile Tyr Ser Asp Leu
 225 230 235 240
 Ala Ala Gly Arg Leu Asp Ala Ala Phe Gln Asp Glu Val Ala Ala Ser
 245 250 255
 Glu Gly Phe Leu Lys Gln Pro Ala Gly Lys Glu Tyr Ala Phe Ala Gly
 260 265 270
 Pro Ser Val Lys Asp Lys Lys Tyr Phe Gly Asp Gly Thr Gly Ile Gly
 275 280 285
 Leu Arg Lys Asp Asp Thr Glu Leu Lys Ala Ala Phe Asp Lys Ala Phe
 290 295 300
 Asn Glu Leu Arg Lys Asp Gly Thr Tyr Asp Lys Leu Ala Lys Lys Tyr
 305 310 315 320
 Phe Asn Phe Asn Val Tyr Gly Asp
 325

<210> 6474

<211> 72

<212> PRT

<213> Enterobacter cloacae

<400> 6474

Thr Gly Pro Lys Arg Asn Arg His Arg Gly Ala Val Tyr Arg Asp Val
 1 5 10 15
 Asp Cys Arg Arg Tyr Arg Gln Leu Arg Asp Arg Ser Ala Gly Arg Glu
 20 25 30
 Asn Arg Ser Val Arg Asn Gly Gln Gly Ala Arg His Leu Phe Arg Arg
 35 40 45
 Val Ala Arg Arg Ala His Cys Gly Arg Asp Pro Val Leu Pro Gly Tyr
 50 55 60
 Leu Tyr Arg Val Leu Gln Lys
 65 70

<210> 6475

<211> 204

<212> PRT

<213> Enterobacter cloacae

<400> 6475

Asn Pro Ala Gln Ser Ala Leu Lys Ser Ala Arg Ala Lys Ile Met Lys
 1 5 10 15
 Arg Leu Ile Val Gly Ile Ser Gly Ala Ser Gly Ala Ile Tyr Gly Val

```
<210> 6476
<211> 268
<212> PRT
<213> Enterobacter cloacae
```

Asp 1	Ser	Leu	Leu	Arg 5	Thr	Asp	Met	Lys	Lys 10	Leu	Val	Leu	Ser	Leu 15	Ser
Leu	Val	Leu	Ala 20	Phe	Ser	Ser	Ala	Thr 25	Ala	Ala	Phe	Ala	Ala 30	Ile	Pro
Gln	Lys	Ile 35	Arg	Ile	Gly	Thr	Asp 40	Pro	Thr	Tyr	Ala	Pro 45	Phe	Glu	Ser
Lys	Asn 50	Ala	Lys	Gly	Glu	Leu 55	Val	Gly	Phe	Asp 60	Ile	Asp	Leu	Ala	Asn
Glu 65	Leu	Cys	Lys	Arg	Ile 70	Lys	Val	Gln	Cys	Thr 75	Tyr	Val	Glu	Asn 80	Pro
Leu	Asp	Ala	Leu	Ile 85	Pro	Ser	Leu	Lys	Ala 90	Lys	Lys	Ile	Asp	Val 95	Ile
Met	Ser	Ser	Leu 100	Ser	Ile	Thr	Glu	Lys 105	Arg	Gln	Gln	Glu 110	Ile	Ala	Phe
Thr	Asp	Lys 115	Leu	Tyr	Ala	Ala	Asp 120	Ser	Arg	Leu	Val	Val 125	Ala	Lys	Ser
Ser	Asp 130	Ile	Gln	Pro	Thr	Leu 135	Glu	Ser	Leu	Lys	Gly 140	Lys	Arg	Val	Gly
Val 145	Leu	Gln	Gly	Thr 150	Thr	Gln	Glu	Thr	Tyr	Gly 155	Asn	Glu	His	Trp	Ala 160
Pro	Lys	Gly	Ile 165	Glu	Ile	Val	Ser	Tyr	Gln 170	Gly	Gln	Glu	Asn	Ile 175	Tyr
Ala	Asp	Leu 180	Thr	Ala	Gly	Arg	Ile 185	Asp	Ala	Ala	Phe	Gln 190	Asp	Glu	Val
Ala	Ala 195	Ser	Glu	Gly	Phe	Leu	Lys 200	Gln	Pro	Val	Gly	Lys 205	Asp	Tyr	Lys
Phe	Gly 210	Gly	Pro	Ser	Ile	Lys 215	Asp	Glu	Lys	Leu	Phe 220	Gly	Val	Gly	Thr
Gly 225	Met	Gly	Leu	Arg	Lys 230	Glu	Asp	Asn	Glu	Leu 235	Arg	Glu	Ala	Leu 240	Asn
Lys	Ala	Phe	Ala	Glu	Met	Arg	Ala	Asp	Gly	Thr	Tyr	Asp	Lys	Leu	Ala

Lys Lys Tyr Phe Asp Phe Asn Val Tyr Gly Gly
 245 250 255
 260 265

<210> 6477
 <211> 239
 <212> PRT
 <213> Enterobacter cloacae

<400> 6477
 Pro Val Ile Glu Ile Ile Gln Glu Tyr Trp Lys Ser Leu Leu Trp Thr
 1 5 10 15
 Asp Gly Tyr Arg Phe Thr Gly Val Ala Ile Thr Leu Trp Leu Ile
 20 25 30
 Ser Ser Val Val Met Gly Gly Ile Leu Ala Val Phe Leu Ala Ile Gly
 35 40 45
 Arg Val Ser Asn Asn Lys Phe Ile Gln Phe Pro Ile Trp Leu Phe Thr
 50 55 60
 Tyr Val Phe Arg Gly Thr Pro Leu Tyr Val Gln Leu Leu Val Phe Tyr
 65 70 75 80
 Ser Gly Met Tyr Thr Leu Glu Ile Val Lys Gly Thr Glu Met Leu Asn
 85 90 95
 Ala Phe Phe Arg Ser Gly Leu Asn Cys Thr Val Leu Ala Leu Thr Leu
 100 105 110
 Asn Thr Cys Ala Tyr Thr Thr Glu Ile Phe Ala Gly Ala Ile Arg Ser
 115 120 125
 Val Pro His Gly Glu Ile Glu Ala Ala Arg Ala Tyr Gly Phe Ser Ser
 130 135 140
 Val Lys Leu Tyr Arg Cys Ile Ile Leu Pro Ser Ala Leu Arg Ile Ala
 145 150 155 160
 Leu Pro Ala Tyr Ser Asn Glu Val Ile Leu Met Leu His Ser Thr Ala
 165 170 175
 Leu Ala Phe Thr Ala Thr Val Pro Asp Leu Leu Lys Ile Ala Arg Asp
 180 185 190
 Ile Asn Ser Ala Thr Tyr Gln Pro Phe Thr Ala Phe Gly Ile Ala Ala
 195 200 205
 Val Leu Tyr Leu Ile Ile Ser Tyr Val Leu Ile Ser Leu Phe Arg Lys
 210 215 220
 Ala Glu Lys Arg Trp Leu Gln His Ile Lys Pro Ser Thr His
 225 230 235

<210> 6478
 <211> 309
 <212> PRT
 <213> Enterobacter cloacae

<400> 6478
 Leu Tyr Leu Ser Ala Ala Pro Ala Ser Leu Arg Gly Glu Asp Leu Gln
 1 5 10 15
 Lys Arg Leu Arg Arg Asn Val Gly Glu Ala Ile Ala Asp Phe Asn Met
 20 25 30
 Ile Glu Glu Gly Asp Arg Ile Met Val Cys Leu Ser Gly Gly Lys Asp
 35 40 45
 Ser Tyr Thr Met Leu Glu Ile Leu Arg Asn Leu Gln Gln Ser Ala Pro
 50 55 60
 Val Asn Phe Ser Leu Val Ala Val Asn Leu Asp Gln Lys Gln Pro Gly
 65 70 75 80
 Phe Pro Glu His Ile Leu Pro Glu Tyr Leu Asp Asn Leu Gly Val Glu
 85 90 95
 Tyr Lys Ile Val Glu Glu Asn Thr Tyr Gly Ile Val Lys Glu Lys Ile
 100 105 110

Pro Glu Gly Lys Thr Thr Cys Ser Leu Cys Ser Arg Leu Arg Arg Gly
 115 120 125
 Ile Leu Tyr Arg Thr Ala Thr Glu Leu Gly Ala Thr Lys Ile Ala Leu
 130 135 140
 Gly His His Arg Asp Asp Ile Leu Gln Thr Leu Phe Leu Asn Met Phe
 145 150 155 160
 Tyr Gly Gly Lys Met Lys Gly Met Pro Pro Lys Leu Met Ser Asp Asp
 165 170 175
 Gly Lys His Ile Val Ile Arg Pro Leu Ala Tyr Cys Arg Glu Lys Asp
 180 185 190
 Ile Glu Arg Phe Ser Gln Ala Lys Ala Phe Pro Ile Ile Pro Cys Asn
 195 200 205
 Leu Cys Gly Ser Gln Pro Asn Leu Gln Arg Gln Val Ile Gly Asp Met
 210 215 220
 Leu Arg Asp Trp Asp Lys Arg Tyr Pro Gly Arg Ile Glu Thr Met Phe
 225 230 235 240
 Ser Ala Met Gln Asn Val Val Pro Ser His Leu Ala Asp Val Glu Leu
 245 250 255
 Phe Asp Phe Lys Gly Ile Asn His Gly Ser Glu Val Val Asn Gly Gly
 260 265 270
 Asp Leu Ala Phe Asp Arg Glu Glu Ile Pro Met Gln Pro Ala Gly Trp
 275 280 285
 Gln Pro Glu Glu Glu Asp Ala Gln Phe Asp Glu Leu Arg Leu Asn Val
 290 295 300
 Val Glu Val Lys
 305

<210> 6479

<211> 388

<212> PRT

<213> Enterobacter cloacae

<400> 6479

Cys Gln Pro Lys Tyr Asn Ala Pro Gly Lys Arg Met Leu Arg Asn Ile
 1 5 10 15
 Ser Val Arg Thr Phe Ile Val Tyr Phe Leu Leu Cys Val Phe Leu Val
 20 25 30
 Ser Asp Gly Val Ile Ala Leu Phe Ser Arg Asn Ser Ser Leu Phe Ile
 35 40 45
 Ala Val Ile Ile Val Gln Phe Ile Ala Leu Phe Leu Leu Trp Ala Tyr
 50 55 60
 Met Thr Lys Tyr Leu Val Thr Pro Ile Asn Thr Val Lys Lys Ser Ile
 65 70 75 80
 Glu Glu Val Thr Ser Gly Lys Leu Gly Val Ser Ile Pro Glu Phe Gly
 85 90 95
 Asn Asn Cys Ala Gly Arg Leu Ile Pro Gly Ile Asn Ser Leu Ser Ser
 100 105 110
 Asn Ile Ala Thr Leu Val Arg Glu Ile Arg Ala Ser Ser Gln Thr Ala
 115 120 125
 Met Thr Leu Ser Asp Gln Leu Ser Ser Arg Ser Ala Gln Leu Ser Val
 130 135 140
 Lys Thr Glu Gln Gln Ser Ala Ser Leu Val Gln Thr Ala Ala Ser Met
 145 150 155 160
 Glu Glu Met Ala Ala Ser Thr Lys Asn Asn Ala Asp Asn Thr Arg Leu
 165 170 175
 Ala Ser Glu Gln Ala Asn Leu Ala Thr Leu Gln Ala Arg Lys Gly Gly
 180 185 190
 Glu Leu Met Gly Gln Val Ala Asn Asn Met Gln Ser Ile Thr Asp Cys
 195 200 205
 Ala Gln Gln Met Thr Glu Ile Ile Ser Leu Ile Asp Gly Ile Ala Phe
 210 215 220

Gln Thr Asn Ile Leu Ala Leu Asn Ala Ala Val Glu Ala Ala Arg Ala
 225 230 235 240
 Gly Asp His Gly Lys Gly Phe Ser Val Val Ala Gly Glu Val Arg Ser
 245 250 255
 Leu Ala His Arg Ser Ala Glu Ala Ala Lys Asn Ile Lys Ser Leu Ile
 260 265 270
 Glu Val Thr Ser His Asn Val Thr Gln Gly Val Asn Val Val Ser Glu
 275 280 285
 Ala Glu Lys Asn Met His Asp Ile Val Thr Gly Ser Gly Asn Val Ser
 290 295 300
 Arg Leu Met Asp Glu Ile Ser Ala Ser Thr Ser Glu Gln Glu Lys Gly
 305 310 315 320
 Ile Ser Gln Ile Thr Gln Ala Leu Ser Glu Leu Glu Arg Val Thr Gln
 325 330 335
 Ser Asn Val Ser Met Val Glu Glu Leu Asn Gly Ser Ser Asp Val Leu
 340 345 350
 Arg Asn Gln Val Ile Glu Leu Gln Thr Arg Thr Arg Asn Phe Arg Leu
 355 360 365
 Glu Asn Glu Leu Gln Ala Asp Asn Ala Leu Arg Ser Arg Glu Trp Ala
 370 375 380
 Val Asn Ser
 385

<210> 6480

<211> 333

<212> PRT

<213> Enterobacter cloacae

<400> 6480

Asn Gly Gly Gly Ala Val Glu Ser Ile Lys Gly Ser Glu Val Asn Val
 1 5 10 15
 Pro Asp Ala Val Phe Ala Trp Val Phe Asp Gly Arg Gly Gly Ala Arg
 20 25 30
 Pro Leu Glu Asp Gln Asp His Ile Asp Asn Glu His Pro Cys Trp Leu
 35 40 45
 His Leu Asn Tyr Thr His Pro Asp Ser Ala Glu Trp Leu Ala Ser Thr
 50 55 60
 Pro Leu Leu Pro Asn Asn Val Arg Asp Ala Leu Ala Gly Glu Ser Leu
 65 70 75 80
 Arg Pro Arg Val Ser Arg Met Gly Glu Gly Thr Leu Ile Thr Leu Arg
 85 90 95
 Cys Ile Asn Gly Ser Thr Asp Glu Arg Pro Asp Gln Leu Val Ala Met
 100 105 110
 Arg Val Tyr Met Asp Glu Arg Leu Ile Val Ser Thr Arg Gln Arg Lys
 115 120 125
 Val Leu Ala Leu Asp Asp Val Ile Asn Asp Leu Lys Glu Gly Thr Gly
 130 135 140
 Pro Thr Asp Cys Gly Ser Trp Leu Val Asp Val Cys Asp Ala Leu Thr
 145 150 155 160
 Asp His Ala Ser Glu Phe Ile Glu Glu Leu His Asp Lys Ile Ile Asp
 165 170 175
 Leu Glu Asp Asn Leu Leu Asp Gln Gln Ile Pro Pro Arg Gly Phe Leu
 180 185 190
 Ala Leu Leu Arg Lys Gln Leu Ile Val Met Arg Arg Tyr Met Thr Pro
 195 200 205
 Gln Arg Asp Val Tyr Ala Arg Leu Ala Ser Glu Arg Met Ser Trp Met
 210 215 220
 Asn Asp Asp Gln Arg Arg Arg Met Gln Asp Ile Ala Asp Arg Leu Gly
 225 230 235 240
 Arg Gly Leu Asp Glu Ile Asp Ser Cys Ile Ala Arg Thr Ala Val Met
 245 250 255

Ala	Asp	Glu	Ile	Ala	Gln	Val	Met	Gln	Glu	Ser	Leu	Ala	Arg	Arg	Thr
			260					265					270		
Tyr	Thr	Met	Ser	Leu	Met	Ala	Met	Val	Phe	Leu	Pro	Ser	Thr	Phe	Leu
		275					280					285			
Thr	Gly	Leu	Phe	Gly	Val	Asn	Leu	Gly	Gly	Ile	Pro	Gly	Gly	Glu	Tyr
	290					295					300				
His	Tyr	Gly	Phe	Thr	Thr	Phe	Cys	Val	Met	Leu	Val	Val	Leu	Ile	Gly
305					310					315					320
Gly	Val	Ala	Trp	Trp	Leu	His	Arg	Ser	Lys	Trp	Leu				
			325						330						

<210> 6481

<211> 467

<212> PRT

<213> Enterobacter cloacae

<400> 6481

Leu	Gln	Ser	Leu	Leu	Arg	Glu	Tyr	Ile	Val	Thr	Ala	Phe	Ser	Thr	Leu
1				5					10					15	
Asn	Val	Leu	Pro	Glu	Ala	Gln	Leu	Ala	Asn	Leu	Asn	Glu	Leu	Gly	Tyr
			20					25					30		
Leu	Thr	Met	Thr	Pro	Val	Gln	Ala	Ala	Leu	Pro	Ala	Ile	Leu	Glu	
		35				40					45				
Gly	Arg	Asp	Val	Arg	Val	Gln	Ala	Lys	Thr	Gly	Ser	Gly	Lys	Thr	Ala
	50					55				60					
Ala	Phe	Gly	Leu	Gly	Leu	Leu	Gln	His	Ile	Asp	Ala	Thr	Leu	Phe	Gln
65				70					75						80
Thr	Gln	Ser	Leu	Ile	Leu	Cys	Pro	Thr	Arg	Glu	Leu	Ala	Asp	Gln	Val
				85					90					95	
Ala	Gly	Glu	Leu	Arg	Arg	Leu	Ala	Arg	Phe	Leu	Pro	Asn	Thr	Lys	Ile
			100					105					110		
Leu	Thr	Leu	Cys	Gly	Gly	Gln	Pro	Phe	Gly	Ala	Gln	Arg	Asp	Ser	Leu
		115				120						125			
Gln	His	Ala	Pro	His	Ile	Ile	Val	Ala	Thr	Pro	Gly	Arg	Leu	Leu	Asp
	130				135						140				
His	Leu	Gln	Lys	Gly	Thr	Val	Ser	Leu	Asp	Ala	Leu	Gln	Thr	Leu	Val
145				150						155					160
Met	Asp	Glu	Ala	Asp	Arg	Met	Leu	Asp	Met	Gly	Phe	Ser	Asp	Ala	Ile
				165					170					175	
Asp	Glu	Val	Ile	Arg	Phe	Ala	Pro	Ala	Thr	Arg	Gln	Thr	Leu	Leu	Phe
			180					185					190		
Ser	Ala	Thr	Trp	Pro	Glu	Ala	Ile	Ala	Ala	Ile	Ser	Gly	Arg	Val	Gln
		195				200						205			
Lys	Asn	Pro	Leu	Thr	Ile	Glu	Ile	Asp	Thr	Val	Asp	Ala	Leu	Pro	Ala
	210				215						220				
Ile	Glu	Gln	Gln	Phe	Phe	Glu	Thr	Ser	Gln	Gln	Gly	Lys	Ile	Pro	Leu
225				230						235					240
Leu	Gln	Lys	Leu	Leu	Ser	Gln	His	Gln	Pro	Ala	Ser	Cys	Val	Val	Phe
				245					250					255	
Cys	Asn	Thr	Lys	Lys	Asp	Cys	Gln	Ala	Val	Cys	Asp	Ala	Leu	Asn	Asp
			260					265					270		
Ala	Gly	Gln	Ser	Ala	Leu	Ser	Leu	His	Gly	Asp	Leu	Glu	Gln	Arg	Asp
		275					280					285			
Arg	Asp	Gln	Thr	Leu	Val	Arg	Phe	Ala	Asn	Gly	Ser	Ala	Arg	Val	Leu
	290					295					300				
Val	Ala	Thr	Asp	Val	Ala	Ala	Arg	Gly	Leu	Asp	Ile	Lys	Ser	Leu	Glu
305				310						315					320
Leu	Val	Val	Asn	Phe	Glu	Leu	Ala	Trp	Asp	Pro	Glu	Val	His	Val	His
			325						330					335	
Arg	Ile	Gly	Arg	Thr	Ala	Arg	Ala	Gly	Asn	Ser	Gly	Leu	Ala	Ile	Ser
			340					345					350		

Phe Cys Ala Pro Glu Glu Ala Gln Arg Ala Asn Ile Leu Ser Glu Met
 355 360 365
 Leu Gln Leu Lys Leu Asn Trp Val Asn Thr Pro Asp Asn Ile Ser Ile
 370 375 380
 Ala Pro Leu Ala Ala Glu Met Ala Thr Leu Cys Ile Asp Gly Gly Lys
 385 390 395 400
 Lys Ala Lys Met Arg Pro Gly Asp Val Leu Gly Ala Leu Thr Gly Asp
 405 410 415
 Met Gly Leu Asp Gly Ala Asp Ile Gly Lys Ile Thr Val His Pro Ala
 420 425 430
 His Val Tyr Val Ala Val Arg Gln Ser Val Ala His Lys Ala Trp Lys
 435 440 445
 Gln Leu Gln Gly Gly Lys Ile Lys Gly Lys Thr Cys Arg Val Arg Leu
 450 455 460
 Leu Lys
 465

<210> 6482

<211> 174

<212> PRT

<213> Enterobacter cloacae

<400> 6482

His Leu Phe Leu Leu Lys Lys Gly Ile Ala Met Ala Asp Ser Phe Gln
 1 5 10 15
 Asn Glu Val Pro Lys Ala Arg Ile Asn Leu Lys Leu Ala Leu His Thr
 20 25 30
 Gly Gly Ala Gln Lys Lys Ile Glu Leu Pro Leu Lys Leu Leu Thr Val
 35 40 45
 Gly Asp Phe Ser Asn Gly Lys Glu Asn Arg Pro Leu Ser Glu Arg Glu
 50 55 60
 Lys Ile Asn Val Asn Lys Asn Asn Phe Asn Ser Val Leu Ser Glu Phe
 65 70 75 80
 Asn Pro Glu Val Asn Leu Thr Val Pro Asn Thr Met Ala Gly Asp Gly
 85 90 95
 Ser Glu Glu Ser Ile Lys Leu Asn Phe Ser Asp Ile Lys Asp Phe Glu
 100 105 110
 Pro Glu Gln Val Ala Arg Gln Ile Pro Gln Leu Arg Ala Met Leu Ala
 115 120 125
 Met Arg Asn Leu Leu Arg Asp Leu Lys Ser Asn Leu Leu Asp Asn Ala
 130 135 140
 Thr Phe Arg Lys Glu Leu Glu Lys Ile Leu Lys Asp Pro Ala Leu Ser
 145 150 155 160
 Gln Glu Leu Arg Asp Glu Met Ser Ala Leu Ala Pro Lys
 165 170

<210> 6483

<211> 219

<212> PRT

<213> Enterobacter cloacae

<400> 6483

Thr Gly Ala Val Ser Met Phe Thr Gly Ile Val Gln Gly Thr Ala Lys
 1 5 10 15
 Val Val Ser Ile Asp Glu Lys Pro Asn Phe Arg Thr His Val Val Glu
 20 25 30
 Leu Pro Glu Tyr Met Leu Asp Gly Ile Glu Thr Gly Ala Ser Ile Ala
 35 40 45
 His Asn Gly Cys Cys Leu Thr Val Thr Glu Ile Asn Gly Asn Gln Ile
 50 55 60
 Ser Phe Asp Leu Met Lys Glu Thr Leu Arg Ile Thr Asn Leu Gly Glu

65					70					75					80
Leu	Val	Val	Gly	Asp	Ile	Ile	Asn	Val	Glu	Arg	Ala	Ala	Lys	Phe	Ser
				85					90					95	
Asp	Glu	Ile	Gly	Gly	His	Leu	Met	Ser	Gly	His	Ile	Met	Thr	Thr	Ala
			100					105					110		
Glu	Val	Ala	Lys	Ile	Val	Thr	Ser	Glu	Asn	Asn	Arg	Gln	Ile	Trp	Phe
		115					120					125			
Lys	Val	Gln	Asp	Pro	Ser	Leu	Met	Lys	Tyr	Ile	Leu	Tyr	Lys	Gly	Phe
		130				135					140				
Ile	Gly	Ile	Asp	Gly	Ile	Ser	Leu	Thr	Val	Gly	Glu	Val	Thr	Pro	Thr
145					150					155					160
Arg	Phe	Cys	Val	His	Leu	Ile	Pro	Glu	Thr	Leu	Gln	Arg	Thr	Thr	Leu
				165					170					175	
Gly	Ala	Lys	Lys	Leu	Gly	Gln	Arg	Val	Asn	Ile	Glu	Ile	Asp	Pro	Gln
			180				185						190		
Thr	Gln	Ala	Val	Val	Asp	Thr	Val	Glu	Arg	Val	Leu	Ala	Ala	Lys	Glu
		195					200					205			
Ala	Ala	Ile	Ile	Lys	Thr	Val	Glu	Glu	Glu						
		210				215									

<210> 6484

<211> 444

<212> PRT

<213> Enterobacter cloacae

<400> 6484

Ile	Lys	Arg	Ser	Ala	Ser	Ser	Gln	Ala	Ala	Ser	Arg	Thr	His	Ser	Met
1				5					10					15	
Pro	Arg	Gln	Pro	Ala	Ala	Lys	Ile	Ala	Ser	Pro	Asn	Asn	Arg	Thr	Gly
		20						25					30		
Leu	Arg	Pro	Lys	Arg	Ser	Glu	Ser	Gly	Pro	His	Ser	Asn	Cys	Ala	Lys
		35				40						45			
Ala	Lys	Pro	Ala	Arg	Asn	Lys	Leu	Lys	Leu	Ala	Leu	Met	Ala	Ala	Ala
		50				55					60				
Gly	Val	Cys	Lys	Ser	Ser	Cys	Ile	Ala	Ala	Asn	Ala	Gly	Arg	Tyr	Ile
65					70				75					80	
Ser	Val	Ala	Lys	Lys	Pro	Ser	Thr	Leu	Lys	Pro	Pro	Ser	Gln	Thr	Lys
			85						90					95	
Asn	Pro	Phe	Leu	Gly	Cys	Thr	Phe	Phe	Leu	Leu	Arg	Arg	Gln	Val	Tyr
			100					105					110		
Val	Gly	Ala	Glu	Cys	Arg	Glu	Cys	Lys	Ala	Ala	Cys	Glu	Thr	Leu	Ile
		115					120					125			
Phe	Gly	Gly	Cys	Ile	Gln	Lys	Ile	Cys	Arg	Leu	Lys	Met	Trp	Ser	Asp
		130				135					140				
Tyr	Ser	Leu	Glu	Val	Val	Asp	Ala	Val	Ala	Arg	Asn	Gly	Ser	Phe	Thr
145					150				155						160
Gly	Ala	Ala	Gln	Glu	Leu	His	Arg	Val	Pro	Ser	Ala	Ile	Ser	Tyr	Thr
			165						170					175	
Val	Arg	Gln	Leu	Glu	Ala	Trp	Leu	Ala	Val	Pro	Leu	Phe	Glu	Arg	Arg
		180					185						190		
His	Arg	Asp	Val	Glu	Leu	Thr	Pro	Ala	Gly	Ala	Trp	Phe	Leu	Lys	Glu
		195					200					205			
Gly	Arg	Ser	Val	Ile	Lys	Lys	Met	Gln	Ile	Thr	Arg	Glu	Gln	Cys	Gln
		210				215					220				
Gln	Ile	Ala	Asn	Gly	Trp	Arg	Gly	His	Leu	Ala	Ile	Ala	Val	Asp	Asn
225					230				235						240
Ile	Val	Lys	Pro	Glu	Arg	Thr	Arg	Gln	Met	Ile	Val	Asp	Phe	Tyr	Arg
			245						250					255	
His	Phe	Ser	Asp	Val	Glu	Leu	Arg	Val	Ser	Gln	Glu	Val	Phe	Asn	Gly
			260				265						270		
Val	Trp	Asp	Ala	Leu	Ala	Asp	Gly	Arg	Ala	Glu	Met	Ala	Ile	Gly	Ala

Thr	Gln	Ala	Ile	Pro	Val	Gly	Gly	Arg	Tyr	Ala	Phe	Arg	Asp	Met	Gly
290						295					300				
Met	Leu	Ser	Trp	Thr	Cys	Val	Val	Ala	Arg	Asp	His	Pro	Leu	Ala	Ala
305					310					315					320
Leu	Glu	Gly	Pro	Leu	Ser	Asp	Asp	Thr	Leu	Arg	Asn	Trp	Pro	Ser	Leu
				325					330					335	
Val	Leu	Glu	Asp	Thr	Ser	Arg	Ser	Leu	Pro	Lys	Arg	Ile	Thr	Trp	Leu
			340					345					350		
Leu	Asp	Asn	Gln	Arg	Arg	Val	Val	Ala	Pro	Asp	Trp	Glu	Ser	Ser	Ala
		355					360					365			
Thr	Cys	Leu	Ser	Ala	Gly	Leu	Cys	Val	Gly	Met	Val	Pro	Val	His	Phe
370						375					380				
Ala	Arg	Pro	Arg	Ile	Asp	Ala	Gly	Glu	Trp	Val	Ala	Leu	Thr	Leu	Glu
385					390					395					400
Asn	Pro	Phe	Pro	Asp	Ala	Ala	Cys	Cys	Leu	Thr	Trp	Gln	Gln	Asn	Asp
				405					410					415	
Val	Ser	Pro	Ala	Met	Ala	Trp	Leu	Leu	Asp	Tyr	Leu	Gly	Asp	Ser	Glu
			420					425					430		
Thr	Leu	Asn	Arg	Glu	Trp	Leu	Arg	Glu	Pro	Ala					
		435					440								

<210> 6485

<211> 279

<212> PRT

<213> Enterobacter cloacae

<400> 6485

Phe	Cys	Ala	Gly	Leu	Trp	His	Gly	Ile	Arg	Ser	Leu	Phe	Met	Lys	Ile
1				5					10					15	
Asn	Phe	Pro	Leu	Ala	Leu	Ala	Ile	Gly	Ala	Phe	Gly	Ile	Gly	Thr	
			20				25					30			
Thr	Glu	Phe	Ser	Pro	Met	Gly	Leu	Leu	Pro	Val	Ile	Ala	Arg	Gly	Val
		35				40					45				
Asp	Val	Ser	Ile	Pro	Ala	Ala	Gly	Met	Leu	Ile	Ser	Ala	Tyr	Ala	Ile
	50					55					60				
Gly	Val	Met	Val	Gly	Ala	Pro	Leu	Met	Thr	Leu	Leu	Leu	Ser	His	Arg
65					70				75						80
Ala	Arg	Arg	Asn	Ala	Leu	Ile	Phe	Leu	Met	Ala	Ile	Phe	Thr	Leu	Gly
			85					90						95	
Asn	Val	Phe	Ser	Ala	Ile	Ser	Pro	Asp	Tyr	Thr	Thr	Leu	Met	Leu	Ser
			100					105					110		
Arg	Ile	Leu	Thr	Ser	Leu	Asn	His	Gly	Ala	Phe	Phe	Gly	Leu	Gly	Ser
		115					120					125			
Val	Val	Ala	Ala	Ser	Val	Val	Pro	Lys	His	Lys	Gln	Ala	Ser	Ala	Val
	130					135					140				
Ala	Thr	Met	Phe	Met	Gly	Leu	Thr	Ile	Ala	Asn	Ile	Gly	Gly	Val	Pro
145					150					155					160
Ala	Ala	Thr	Trp	Leu	Gly	Glu	Ala	Ile	Gly	Trp	Arg	Met	Ser	Phe	Leu
			165						170					175	
Ala	Thr	Ala	Gly	Leu	Gly	Val	Val	Ala	Met	Val	Ala	Leu	Phe	Phe	Ser
			180					185					190		
Leu	Pro	Lys	Gly	Ser	Ala	Gly	Glu	Arg	Pro	Glu	Val	Arg	Lys	Glu	Leu
		195					200					205			
Ala	Val	Leu	Met	Arg	Pro	Gln	Val	Leu	Ser	Ala	Leu	Leu	Thr	Thr	Val
	210					215					220				
Leu	Gly	Ala	Gly	Ala	Met	Phe	Thr	Leu	Tyr	Thr	Tyr	Ile	Ser	Pro	Val
225					230					235					240
Leu	His	Asp	Ile	Thr	His	Ala	Thr	Pro	Leu	Phe	Val	Thr	Ala	Met	Leu
			245						250					255	
Val	Leu	Ile	Gly	Val	Gly	Phe	Ser	Thr	Gly	Pro	Ile	Ser	Val	Phe	Thr

260
Thr Arg Thr Gly Pro Arg Thr
275

265

270

<210> 6486

<211> 109

<212> PRT

<213> Enterobacter cloacae

<400> 6486

Gly	Arg	Ile	Ser	Thr	Ala	Ser	Ser	Leu	Arg	Thr	Ser	Gly	Arg	Ser	Pro
1			5						10					15	
Ala	Leu	Pro	Phe	Gly	Ser	Glu	Lys	Asn	Ser	Ala	Thr	Ile	Ala	Thr	Thr
			20					25					30		
Pro	Ser	Pro	Ala	Val	Ala	Arg	Lys	Asp	Ile	Arg	Gln	Pro	Met	Ala	Ser
		35					40					45			
Pro	Ser	Gln	Val	Ala	Ala	Gly	Thr	Pro	Pro	Ile	Leu	Ala	Met	Val	Arg
		50				55					60				
Pro	Ile	Asn	Ile	Val	Ala	Thr	Ala	Leu	Ala	Cys	Leu	Cys	Phe	Gly	Thr
65					70					75					80
Thr	Leu	Ala	Ala	Thr	Thr	Glu	Pro	Ser	Pro	Lys	Lys	Ala	Pro	Trp	Leu
				85					90					95	
Arg	Leu	Val	Arg	Met	Arg	Glu	Ser	Ile	Arg	Val	Val				
			100					105							

<210> 6487

<211> 465

<212> PRT

<213> Enterobacter cloacae

<400> 6487

Leu	Gln	Tyr	Lys	Gly	Val	His	Val	Gln	Lys	Tyr	Met	Ile	Glu	Ala	Arg
1				5					10					15	
Gln	Leu	Leu	Ala	Leu	Ala	Ile	Pro	Val	Ile	Val	Ala	Gln	Val	Ala	Gln
			20					25					30		
Thr	Ala	Met	Gly	Phe	Val	Asp	Thr	Val	Met	Ala	Gly	Gly	Tyr	Ser	Ala
		35					40					45			
Thr	Asp	Met	Ala	Ala	Val	Ala	Ile	Gly	Thr	Ser	Ile	Trp	Leu	Pro	Ala
		50				55					60				
Ile	Leu	Phe	Gly	His	Gly	Leu	Leu	Leu	Ala	Leu	Thr	Pro	Val	Ile	Ala
65				70					75						80
Gln	Leu	Asn	Gly	Ser	Gly	Arg	Arg	Asp	Arg	Val	Ala	His	Gln	Val	Arg
			85					90						95	
Gln	Gly	Phe	Trp	Leu	Ala	Gly	Phe	Val	Ser	Val	Leu	Ile	Met	Ile	Val
			100					105					110		
Leu	Trp	Asn	Ala	Gly	Tyr	Ile	Ile	Arg	Ala	Met	His	Asn	Ile	Asp	Pro
		115				120					125				
Ala	Leu	Ala	Asp	Lys	Ala	Val	Gly	Tyr	Leu	Arg	Ala	Leu	Leu	Trp	Gly
		130				135					140				
Ala	Pro	Gly	Tyr	Leu	Phe	Phe	Gln	Val	Ala	Arg	Asn	Gln	Cys	Glu	Gly
145					150					155					160
Leu	Ala	Lys	Thr	Lys	Pro	Gly	Met	Val	Met	Gly	Phe	Ile	Gly	Leu	Leu
				165					170					175	
Val	Asn	Ile	Pro	Val	Asn	Tyr	Ile	Phe	Ile	Tyr	Gly	His	Phe	Gly	Met
			180					185					190		
Pro	Glu	Leu	Gly	Gly	Val	Gly	Cys	Gly	Val	Ala	Thr	Ala	Ala	Val	Tyr
		195				200						205			
Trp	Val	Met	Phe	Gly	Ser	Met	Leu	Thr	Tyr	Ile	Lys	His	Ala	Arg	Ser
		210				215					220				
Met	Arg	Asp	Ile	Arg	Asn	Asp	Thr	Thr	Phe	Ser	Thr	Pro	Asp	Trp	Ser
225					230					235					240

Met Leu Thr Arg Leu Thr Gln Leu Gly Leu Pro Ile Ala Leu Ala Leu
 245 250 255
 Phe Phe Glu Val Thr Leu Phe Ala Val Val Ala Leu Leu Val Ser Pro
 260 265 270
 Leu Gly Ile Ile Asp Val Ala Gly His Gln Ile Ala Leu Asn Phe Ser
 275 280 285
 Ser Leu Met Phe Val Leu Pro Met Ser Leu Ala Ala Ala Val Thr Ile
 290 295 300
 Arg Val Gly Phe Arg Leu Gly Gln Gly Ser Thr Leu Asp Ala Gln Thr
 305 310 315 320
 Ala Ala Arg Thr Gly Leu Gly Val Gly Val Cys Met Ala Val Cys Thr
 325 330 335
 Ala Leu Phe Thr Val Leu Leu Arg Glu Gln Ile Ala Leu Leu Tyr Asn
 340 345 350
 Asp Asn Pro Glu Val Val Thr Leu Ala Ser His Leu Met Leu Leu Ala
 355 360 365
 Ala Ile Tyr Gln Ile Ser Asp Ser Ile Gln Val Ile Gly Ser Gly Val
 370 375 380
 Leu Arg Gly Tyr Lys Asp Thr Arg Ser Ile Phe Phe Ile Thr Phe Ile
 385 390 395 400
 Ala Tyr Trp Val Leu Gly Leu Pro Ser Gly Tyr Ile Leu Ala Leu Thr
 405 410 415
 Asp Leu Val Val Asp Arg Met Gly Pro Ala Gly Phe Trp Met Gly Phe
 420 425 430
 Ile Ile Gly Leu Thr Ser Ala Ala Ile Met Met Met Leu Arg Met Arg
 435 440 445
 Phe Leu Gln Arg Gln Pro Ser Thr Val Ile Leu Gln Arg Ala Ala Arg
 450 455 460

465

<210> 6488

<211> 344

<212> PRT

<213> Enterobacter cloacae

<400> 6488

His Leu Met Ala Thr Ile Lys Asp Val Ala Lys Arg Ala Asn Val Ser
 1 5 10 15
 Thr Thr Thr Val Ser His Val Ile Asn Lys Thr Arg Phe Val Ala Glu
 20 25 30
 Glu Thr Arg Asn Ala Val Trp Ala Ala Ile Lys Glu Leu His Tyr Ser
 35 40 45
 Pro Ser Ala Val Ala Arg Ser Leu Lys Val Asn His Thr Lys Ser Ile
 50 55 60
 Gly Leu Leu Ala Thr Ser Ser Glu Ala Ala Tyr Phe Ala Glu Ile Ile
 65 70 75 80
 Glu Ala Val Glu Lys Asn Cys Phe Gln Lys Gly Tyr Thr Leu Ile Leu
 85 90 95
 Gly Asn Ala Trp Asn Asn Ile Glu Lys Gln Arg Ala Tyr Leu Ser Met
 100 105 110
 Met Ala Gln Lys Arg Val Asp Gly Leu Leu Val Met Cys Ser Glu Tyr
 115 120 125
 Pro Glu Ser Val Leu Ser Met Leu Glu Glu Tyr Arg His Ile Pro Met
 130 135 140
 Val Val Met Asp Trp Gly Glu Ala Arg Ala Asp Phe Thr Asp Ser Val
 145 150 155 160
 Ile Asp Asn Ala Phe Glu Gly Gly Tyr Met Ala Gly Arg Tyr Leu Val
 165 170 175
 Glu Arg Gly His Arg Glu Ile Gly Val Ile Pro Gly Pro Leu Glu Arg
 180 185 190

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<210> 6489
<211> 430
<212> PRT
<213> Enterobacter cloacae
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Met 1	His	Pro	Pro	Asn 5	Ile	Ser	Val	Ser	Gln 10	Ala	Ala	Leu	His	Ser 15	Leu
His	Ser	Ala	Pro	Thr 20	Tyr	Thr	Cys	Leu 25	Leu	Arg	Arg	Lys	Lys 30	Val	Gln
Pro	Arg	Lys 35	Gly	Phe	Leu	Val	Trp 40	Leu	Gly	Gly	Leu	Ser 45	Val	Leu	Gly
Phe	Leu 50	Ala	Thr	Asp	Met	Tyr 55	Leu	Pro	Ala	Phe	Ala 60	Ala	Met	Gln	Glu
Asp 65	Leu	Gln	Thr	Pro	Ala 70	Ala	Ala	Ile	Ser	Ala 75	Ser	Leu	Ser	Leu	Phe 80
Leu	Ala	Gly	Phe	Ala 85	Phe	Ala	Gln	Leu 90	Leu	Trp	Gly	Pro	Leu 95	Ser	Asp
Arg	Phe	Gly	Arg 100	Lys	Pro	Val	Leu 105	Leu	Leu	Gly	Leu	Ala 110	Ile	Phe	Ala
Ala	Gly	Cys 115	Leu	Gly	Met	Leu	Trp 120	Val	Arg	Asp	Ala	Ala 125	Trp	Leu	Leu
Ala	Leu 130	Arg	Phe	Ile	Gln	Ala 135	Val	Gly	Val	Cys	Ala 140	Ala	Ala	Val	Thr
Trp 145	Gln	Ala	Leu	Val 150	Thr	Asp	Tyr	Tyr	Pro	Ala 155	Ser	Arg	Thr	Asn 160	Arg
Ile	Phe	Ala	Thr 165	Ile	Met	Pro	Leu	Val 170	Gly	Leu	Ser	Pro	Ala 175	Leu	Ala
Pro	Leu	Met	Gly 180	Ser	Trp	Ile	Leu	Ala 185	His	Phe	Asp	Trp	Gln 190	Ala	Ile
Phe	Ala	Thr 195	Leu	Phe	Ala	Ile	Thr 200	Leu	Val	Leu	Met	Leu 205	Pro	Ala	Phe
Gly	Leu 210	Lys	Pro	Ala	His	Lys 215	Lys	Glu	Thr	His	Pro 220	Asp	Ala	Lys	Pro
Ile 225	Thr	Phe	Thr	Ser 230	Leu	Leu	Arg	Ser	Lys	Ala 235	Tyr	Arg	Gly	Asn 240	Val
Leu	Ile	Tyr	Ala 245	Ala	Cys	Ser	Ala	Ser	Phe 250	Phe	Ala	Trp	Leu 255	Thr	Gly
Ser	Pro	Phe 260	Ile	Leu	His	Asp	Met 265	Gly	Tyr	Ser	Pro	Ala 270	Ala	Ile	Gly

Leu Ser Tyr Val Pro Gln Thr Ile Ala Phe Leu Val Gly Gly Tyr Gly
 275 280 285
 Cys Arg Ala Ala Leu Gln Lys Trp Glu Gly Gln Gln Met Leu Pro Trp
 290 295 300
 Leu Leu Val Leu Tyr Ala Leu Ser Val Ile Ala Thr Trp Ala Val Gly
 305 310 315 320
 Phe Ile Pro Gly Ala Gly Leu Ala Glu Ile Leu Ile Pro Phe Cys Val
 325 330 335
 Met Ala Ile Ala Asn Gly Ala Ile Tyr Pro Ile Val Val Ala Gln Ala
 340 345 350
 Leu Arg Pro Phe Pro Gln Ala Thr Gly Arg Ala Ala Ala Leu Gln Asn
 355 360 365
 Thr Leu Gln Leu Gly Leu Cys Phe Leu Ala Ser Leu Val Val Ser Ala
 370 375 380
 Leu Ile Ala Thr Pro Leu Leu Thr Thr Thr Ser Val Met Leu Ile Thr
 385 390 395 400
 Val Ala Leu Ala Gly Leu Gly Tyr Arg Met Gln Ser Ser Ala Leu Arg
 405 410 415
 Glu Gln Asn Asp Asn Ala Gln Thr Glu Thr Ser His Ala
 420 425 430

<210> 6490

<211> 391

<212> PRT

<213> Enterobacter cloacae

<400> 6490

Ser Gln Gln Gly Asp Gly Glu Ala Met Ser Ser Ser Cys Ile Glu Glu
 1 5 10 15
 Val Ser Val Pro Asp Asp Asn Trp Ser Arg Ile Val Ser Glu Leu Leu
 20 25 30
 Gly Arg Ala Gly Ile Thr Ile Asn Gly Ser Ser Pro Ser Asp Pro Gln
 35 40 45
 Ile Lys His Pro Asp Phe Phe Lys Arg Val Leu Gln Glu Gly Ser Leu
 50 55 60
 Gly Leu Gly Glu Ser Tyr Met Asp Gly Trp Trp Glu Cys Glu Arg Leu
 65 70 75 80
 Asp Met Phe Phe Ser Ser Val Leu Arg Ala Gly Leu Glu Lys Gln Leu
 85 90 95
 Pro Arg His Phe Lys Asp Thr Leu Arg Ile Ala Ser Ala Arg Leu Phe
 100 105 110
 Asn Leu Gln Ser Lys Lys Arg Ala Trp Ile Val Gly Lys Glu His Tyr
 115 120 125
 Asp Leu Gly Asn Asp Leu Phe Ser Arg Met Leu Asp Pro Leu Met Gln
 130 135 140
 Tyr Ser Cys Gly Tyr Trp Lys Lys Ala Thr Thr Leu Glu Glu Ala Gln
 145 150 155 160
 Gln Asp Lys Leu Gln Leu Ile Cys Asp Lys Leu Gln Leu Gln Pro Gly
 165 170 175
 Met Arg Val Leu Asp Ile Gly Cys Gly Trp Gly Gly Leu Ala Trp Phe
 180 185 190
 Met Ala Lys Asn Tyr Gly Val Ser Val Val Gly Val Thr Ile Ser Ala
 195 200 205
 Glu Gln Gln Lys Met Ala Gln Glu Arg Cys Leu Gly Leu Asp Val Asp
 210 215 220
 Ile Arg Leu Gln Asp Tyr Arg Asp Leu Asn Glu Gln Phe Asp Arg Ile
 225 230 235 240
 Val Ser Val Gly Met Phe Glu His Val Gly Pro Lys Asn Tyr Lys Thr
 245 250 255
 Tyr Phe Glu Val Ala Asp Arg Asn Leu Lys Pro Asp Gly Ile Phe Leu
 260 265 270

Leu His Thr Ile Gly Ser Lys Arg Thr Asp Asn Asn Val Asp Pro Trp
 275 280 285
 Ile Asn Lys Tyr Ile Phe Pro Asn Gly Cys Leu Pro Ser Val Arg Gln
 290 295 300
 Ile Ala Asn Ala Ser Glu Pro His Phe Ile Val Glu Asp Trp His Asn
 305 310 315 320
 Phe Gly Ala Asp Tyr Asp Thr Thr Leu Met Ala Trp His Glu Arg Phe
 325 330 335
 Gln Ala Ala Trp Pro Glu Ile Ala Asp Asn Tyr Ser Glu Arg Phe Lys
 340 345 350
 Arg Met Phe Ser Tyr Tyr Leu Asn Ala Cys Ala Gly Ala Phe Arg Ala
 355 360 365
 Arg Asp Ile Gln Leu Trp Gln Val Val Phe Ser Arg Gly Ile Glu His
 370 375 380
 Gly Leu Arg Val Ala Arg
 385 390

<210> 6491

<211> 364

<212> PRT

<213> Enterobacter cloacae

<400> 6491

Ala Arg Trp Ala Ala Pro Ser Ala Ala Tyr Ser Ala Trp Trp Ala Ala
 1 5 10 15
 Ser Ser Ala Val Ser Ser Ala Pro Lys Arg Glu Ala Arg Cys Thr His
 20 25 30
 Gly Pro His Cys Arg Ala Ile Phe Leu Phe Gln Pro Arg Ile Ile Met
 35 40 45
 Phe Ser Leu Phe Gln Tyr Lys Lys Gln Gly Lys Thr Pro Val Ile Arg
 50 55 60
 Gln His Glu Phe Thr Glu Cys Gly Leu Ala Cys Leu Ala Met Val Leu
 65 70 75 80
 Gly His Tyr Asp His His Val Ser Val Ser Gln Leu Arg Arg Glu Ile
 85 90 95
 Ser Val Ser Ala Asp Ala Gly Thr Ser Met Ala Glu Leu Met Thr Leu
 100 105 110
 Ala Ser Asp Lys Asn Met Ser Gly Arg Val Leu Lys Gly Glu Ile Thr
 115 120 125
 Glu Ile Glu Thr Ser Glu Leu Pro Leu Ile Ala Phe Trp Arg Gly Asn
 130 135 140
 His Phe Val Val Ile Val Lys Ile Asp Ser Arg Ser Val Thr Val His
 145 150 155 160
 Asp Pro Ala Ser Gly Val Arg Arg Tyr Arg Leu Lys Glu Ala Glu Lys
 165 170 175
 Leu Phe Ser Gly Tyr Val Leu Glu Leu Lys Pro Thr Pro Cys Phe Glu
 180 185 190
 Lys Lys Ser Pro Asp Glu Thr Leu Thr Leu Gly Arg Leu Ala Asn Lys
 195 200 205
 Ser Pro Ser Leu Phe Gln Arg Gln Leu Leu Leu Phe Val Leu Cys Ile
 210 215 220
 Phe Thr Leu Ile Thr Met Leu Ala Ser Pro Thr Tyr Val Gln Leu Ile
 225 230 235 240
 Met Asp Glu Ala Ile Ser Arg Ser Asp Ser Asp Leu Val Ile Leu Leu
 245 250 255
 Thr Ala Ile Phe Ala Ile Val Phe Ile Phe Glu Val Ile Gly Lys Phe
 260 265 270
 Leu Lys Gln Leu Leu Glu Ile Leu Met Arg Asn Ile Ala Tyr Asp Asp
 275 280 285
 Leu Ser Gln Ser Val Arg His Tyr Met Leu Arg Thr Gln Thr Ser Trp
 290 295 300

Phe Arg Ser Arg Pro Pro Gly Ile Val Leu Ala Ile Glu Lys Ser Leu
 305 310 315 320
 His Ala Cys Ala Glu Phe Ile Ser Asn Gly Tyr Val Gln Ile Leu Phe
 325 330 335
 Ser Ser Leu Ile Ala Val Thr Ser Leu Leu Phe Met Leu Leu Tyr Asn
 340 345 350
 Val Gln Ile Ala Leu Ala Asp Asn Ala Ala Asp Gly
 355 360

<210> 6492

<211> 208

<212> PRT

<213> Enterobacter cloacae

<400> 6492

Met Asn Lys Leu Asn Ala Ile Val Leu Gly Ser Leu Leu Ser Val Ser
 1 5 10 15
 Ala Leu Ser Ala Val Asn Ala Ala Glu Thr Thr Ala Ser Ala Thr Trp
 20 25 30
 Gln Ala Thr Ala Thr Lys Asp Ser Glu Ser Asp Leu Val Val Thr Pro
 35 40 45
 Thr Arg Ala Leu Asn Phe Val Tyr Ser Ala Asn Thr Lys Ser Phe Asn
 50 55 60
 Thr Asp Thr Gly Leu Phe Asp Val Ala Ile Arg Gly Asp His Ser Thr
 65 70 75 80
 Ala Thr Ser Phe Lys Leu Glu Ala Ile Leu Asp Asp Ser Asn Asn Thr
 85 90 95
 Leu Phe Ser Val Gly Gly Glu Ala Thr Lys Leu Lys Val Gly Ala Arg
 100 105 110
 Trp Gly Gly Asn Asp Leu Gly Ser Ile Gly Gly Thr Val Gly Ala Lys
 115 120 125
 Ser Thr Ala Trp Thr Thr Leu Val Asp Ser Ser Ser Asn Thr Gly Val
 130 135 140
 Ser Ser Gly Leu Trp Asn Leu Thr Thr Ser Ala Gly Ala Ala Ala Asp
 145 150 155 160
 Thr Glu Ile Thr Gly Gln Asp Lys Phe Val Phe Tyr Val Asp Ser Ala
 165 170 175
 Gln Asp Asn Ala Gly Thr Ala Lys Glu Phe Lys Asp Leu Thr Asn Ser
 180 185 190
 Leu Trp Glu Gly Thr Val Ser Val Ala Phe Arg Ala Thr Trp Gly
 195 200 205

<210> 6493

<211> 229

<212> PRT

<213> Enterobacter cloacae

<400> 6493

Gly Asn Ser Met Phe Asn Leu Lys Ser Ala Phe Leu Phe Leu Leu Phe
 1 5 10 15
 Ile Ser Ser Ser Ala Leu Ala Ile Asn Val Gly Lys Val Thr Thr Ile
 20 25 30
 Ile Ser Ala Asp Ala Asp Ser Thr Ala Lys Glu Ile Lys Asn Glu Ala
 35 40 45
 Asp Ser Val Arg Ile Val Ser Val Arg Ala Gln Arg Ile Ser Ser Pro
 50 55 60
 Met Asp Glu Gly Ile Val Ile Asn Pro Glu Lys Val Asp Glu Leu Leu
 65 70 75 80
 Leu Thr Pro Thr Arg Met Val Met Pro Ala Gly Thr Ser Asn Ile Val
 85 90 95
 Lys Phe Tyr Tyr His Gly Asn Ala Asp Asn Lys Glu Arg Tyr Tyr Arg

Ile	Thr	Phe	100	Thr	Asp	Glu	Gly	Val	105	Ser	Glu	Glu	Val	Asp	110	Ser	Gly	Ser
		115						120						125				
Pro	Lys	Asn	Gly	Thr	Gly	Met	Thr	Arg	Ala	Val	Val	Ser	Thr	Ile	Leu			
	130					135					140							
Val	Val	Gln	Pro	Arg	Asp	Lys	Lys	Ile	Asp	Phe	Val	Tyr	Val	Ala	Gly			
145					150					155					160			
Lys	Ile	Thr	Asn	Lys	Gly	Asn	Thr	Ser	Phe	Arg	Val	Asn	Ala	Thr	Gly			
			165						170					175				
Thr	Cys	Leu	Lys	Pro	Asn	Pro	Glu	Ser	Pro	Gly	Thr	Pro	Cys	Ser	Lys			
			180					185						190				
Asn	Phe	Tyr	Leu	Met	Pro	Glu	Thr	Ser	Arg	Ala	Ile	Glu	Asp	Ile	Asn			
	195						200					205						
Val	Thr	Asp	Asn	His	Phe	His	Leu	Gly	Ile	Trp	Asp	Leu	Lys	Gln	Phe			
	210					215					220							
Ile	Pro	Val	Lys															
225																		

<210> 6494

<211> 867

<212> PRT

<213> Enterobacter cloacae

<400> 6494

Gly	Cys	Met	Val	Lys	Asn	Lys	Leu	Val	Leu	Pro	Val	Met	Met	Ala	Cys			
1				5					10					15				
Ala	Ser	Gly	Thr	Leu	Pro	Ala	Leu	Ala	His	Ala	Ala	Ser	Ser	Ser	Val			
			20					25					30					
Val	Ile	Ala	Asn	Tyr	Arg	Phe	Pro	Asp	Ser	Leu	Tyr	Ala	Leu	Leu	Glu			
	35						40				45							
Gln	Gly	Ile	Lys	Ile	Pro	Val	Tyr	Leu	Val	Asn	Thr	Arg	Pro	His	Ser			
	50					55				60								
Ala	Gln	Gln	Gly	Asn	His	Glu	Gly	Thr	Ala	Ser	Glu	Tyr	Val	Arg	Ile			
65				70					75					80				
Gly	Asp	Val	Thr	Leu	Phe	Ala	Lys	Asp	Leu	Lys	Leu	Gly	Leu	Arg	Asp			
				85				90						95				
Val	Gln	Val	Gln	Glu	Ser	Asp	Asn	Gly	Ile	Arg	Leu	Ser	Lys	Glu	Met			
			100					105					110					
Arg	Ala	Leu	Leu	Gln	Ser	Ile	Asn	Asp	Lys	Gln	Phe	Asp	Asp	Gln	Met			
		115					120					125						
Arg	Ile	Pro	Val	Ser	Ala	Gly	Ser	Ala	Phe	Glu	Leu	Asp	Gln	Lys	Lys			
	130					135					140							
Met	Arg	Leu	Leu	Leu	Asn	Leu	Ser	Gln	Ser	Asp	Tyr	Gly	Val	Asn	Ile			
145					150					155					160			
Arg	Leu	Arg	Glu	Val	Asp	Ile	Asp	Ala	Pro	Glu	Ser	Asp	Asp	Leu	Ser			
				165				170						175				
Gly	Thr	Phe	Ser	Tyr	Asn	Leu	Gly	Ala	Tyr	His	Thr	Glu	Ser	Gly	Tyr			
			180				185						190					
Gly	Asp	Ser	Trp	Ser	Ser	Gly	Tyr	Leu	Asn	Ala	Arg	Asn	Trp	Ile	Ser			
	195						200					205						
Met	Gly	Val	Asp	His	Val	Leu	Ile	Asp	Gly	Ser	Gly	Tyr	Val	Asn	Glu			
	210					215					220							
Ser	Ser	Ser	Asp	Thr	Gln	Met	Asn	Ala	Val	Met	Trp	Glu	Arg	Asp	Tyr			
225				230					235						240			
Gln	Gly	Met	Arg	Tyr	Ala	Ala	Gly	Met	Leu	Asn	Gly	Trp	Ala	Met	Gln			
				245				250						255				
Ser	Leu	Ala	Ser	Val	Ser	Gly	Ile	Ser	Gly	Gly	Glu	Val	Tyr	Gly	Val			
			260					265					270					
Ser	Met	Gly	Asn	Gln	Ala	Asn	Ser	Arg	Lys	Arg	Asp	Asn	Thr	Leu	Ser			
	275						280					285						
Leu	Thr	Pro	Val	Val	Val	Tyr	Phe	Pro	Thr	Ala	Gly	Glu	Ala	Arg	Ile			

	290					295					300					
Arg 305	Arg	Asp	Gly	Gln	Leu 310	Ile	Gly	Ile	Gln	Arg 315	Phe	Asp	Val	Gly	Asn 320	
His	Glu	Ile	Asp	Thr 325	Ser	Ser	Leu	Pro	Tyr 330	Gly	Ile	Tyr	Ser	Ile	Glu 335	
Val	Glu	Val	Val 340	Ser	Gly	Ser	Arg	Thr 345	Val	Ser	Arg	Asn	Met	Tyr	Thr	
Val	Asn	Lys 355	Pro	Phe	Ser	Ser	Asn 360	Val	Ser	Glu	Thr	Leu 365	Arg	Trp	Gln	
Met	Trp 370	Gly	Gly	Met	Tyr	Ser 375	Arg	Asp	Lys	Ser	Val 380	Val	Asn	Tyr	Lys	
Lys 385	Tyr	Ala	Lys	Arg	Lys 390	Asn	Glu	Gln	Asp 395	Asn	Thr	Tyr	Asn	Tyr	Asp 400	
Tyr	Asp	Thr	Lys 405	His	Lys	Asp	Thr	Met 410	Ser	Leu	Val	Gly	Ala	Ser	Phe 415	
Ser	Lys	Arg 420	Ser	Gly	Met	Val	Asp 425	Trp	Asn	Ala	Ser	Thr	Tyr 430	Met	Met	
Arg	Glu	His 435	Ile	Val	Ser	Glu	Leu 440	Trp	Ala	Ser	Leu	Asn 445	Leu	Thr	Gly	
Tyr	Phe 450	Ser	Val	Asn	Thr	Gln 455	Thr	Met	Ala	Ala	Ser	Asp 460	Gly	Thr	Tyr	
Arg 465	Ala	Asn	Tyr	Gly	Ala 470	Asn	Leu	Ser	Leu	Pro 475	Trp	Gln	Ile	Gly	Ser 480	
Val	Trp	Tyr	Ser 485	His	Glu	Gln	Leu	Ser 490	Ser	Gly	Lys	Phe	Leu	Asp 495	Ile	
Tyr	Glu	Ser 500	Lys	Gly	Asn	Thr	Trp 505	Gly	Ala	Ser	Phe	Ser	Leu 510	Pro	Ser	
Phe	Gly 515	Leu	Pro	Ser	Ala	Gly	Asn 520	Leu	Ser	Leu	Met	Arg 525	Gln	Glu	Asp	
Asp	Leu 530	Tyr	Arg	Tyr	Lys	Arg 535	Tyr	Gln	Leu	Asp	Tyr 540	Ser	Gln	Gly	Leu	
Tyr 545	Ala	Gly	Arg	Tyr 550	Gly	Thr	Ala	Arg	Leu	Arg 555	Val	Gly	Met	Ser	Arg 560	
Asn	Lys	Tyr	Asp 565	Gly	Tyr	Tyr	Glu	Glu 570	Lys	Asp	Arg	Tyr	Val	Met 575	Leu	
Asp	Phe 580	Ala	Ile	Pro	Leu	Gly	Asn 585	Thr	Val	Ser	Val	Gly	Val 590	Ser	His	
Asn	Arg 595	Asp	Thr	Gly	Thr	Ala	Leu 600	Asn	Val	Ser	Ala	Ser 605	Arg	Gln	Phe	
Glu	Gly 610	Asp	Tyr	Leu	Lys	Ser	Ala 615	Thr	Ala	Asn	Val	Ser 620	Lys	Ala	Phe	
Asn 625	Ser	Arg	Gln	Asp 630	Arg	Ser	Val	Ser	Gly	Gly 635	Ser	Val	Asn	Phe 640		
Asp	Thr	Pro	Trp 645	Asn	Ser	Asn	Ile	Leu 650	Ser	Val	Gln	Ser	Gly 655	Met	Ser	
Lys	Gly 660	Trp	Asn	Ser	Thr	Leu	Thr 665	Ser	Asp	Gly	Ser	Val	Gly 670	Trp	Ser	
Lys	Glu 675	Ala	Ile	Ala	Ala	Gly	Lys 680	Gly	Thr	Glu	Ser	Ala 685	Gly	Val	Ile	
Val	Ser 690	Thr	Gly	Leu	Lys	Ser 695	Asp	Glu	Ala	Leu	Thr	Leu 700	Lys	Leu	Asn	
Gly 705	Arg	Ala	Glu	Arg 710	Ile	Lys	Gly	Asp	Lys	Thr 715	Trp	Leu	Ser	Leu	Pro 720	
Ala	Tyr	Gln	Ala 725	Tyr	Asp	Leu	Glu	Val 730	Met	Asn	Ser	Glu	Thr	Gly 735	Thr	
Glu	Ser 740	Tyr	Glu	Ile	Gly	Ala	Asn 745	Ala	Arg	Arg	His	Ile	Thr 750	Val	Tyr	
Pro	Gly 755	Asn	Thr	Val	Val	Met	Lys 760	Pro	Gln	Val	Lys	Lys 765	Ile	Val	Thr	
Leu	Phe 770	Gly	Arg	Leu	Val	Asp 775	Ala	Asn	Gly	Ala	Pro 780	Ile	Gly	Ala	Met	

Gln Ile Lys Asn His Val Gly Leu Thr Arg Thr Glu Asn Asp Gly Arg
 785 790 795 800
 Phe Val Ile Asp Val Asp Lys Asn Asn Pro Val Leu Ser Ile Ala Thr
 805 810 815
 Pro Asp Asp Ser Val Cys Glu Val Arg Leu Asp Ile Glu Ser Asn Arg
 820 825 830
 Gly Ala Leu Trp Leu Gly Asp Ile Ser Cys Asp Lys Gly Asp Phe Val
 835 840 845
 Trp Gln Glu Ala Lys Gly Thr Gln Glu Arg Asp Asp Glu Lys Asp Ile
 850 855 860
 Arg Ser
 865

<210> 6495

<211> 276

<212> PRT

<213> Enterobacter cloacae

<400> 6495

Ala Met Arg Gly Ser Phe Ala Leu Val Val Lys Ile Thr Met Leu Tyr
 1 5 10 15
 Glu Val Asp Thr Gly Met Ile Met Ile Asn Gly Glu Glu Glu Ser Ser
 20 25 30
 Ile Lys Leu Ser Asn Gln Ala Gly Arg Leu Leu Tyr Glu Leu Ile Ile
 35 40 45
 Asn Asn Gly Lys Thr Leu Asp Arg Asp Asp Leu Ile Lys Lys Val Trp
 50 55 60
 Glu Asp His Gly Phe Ser Gly Ser Ser Val Ser Leu Asn Val Ala Ile
 65 70 75 80
 Ser Glu Ile Arg Lys Ala Phe Arg Thr Leu Gly Cys Asp Pro Leu Leu
 85 90 95
 Ile Lys Thr Ile Arg Gly Lys Gly Phe Ser Leu Ala Ala His Ile Glu
 100 105 110
 His His Thr Val Arg Pro Pro Val Val Ser Thr Leu Ser Glu Gln Ser
 115 120 125
 Ala Ser Glu Ser Phe Asp Thr Leu Ala His Lys Lys Asp Ala Asp Pro
 130 135 140
 Pro Lys Gln Leu Ile Ser Leu His Arg Leu Phe Ile Ser Leu Cys Thr
 145 150 155 160
 Leu Leu Leu Ile Thr Val Ile Gly Thr Ala Val Leu Leu Leu His Gln
 165 170 175
 Arg Asp Ser Tyr Ala Glu Ser Leu Lys Asp Ser Asp Met His Leu Leu
 180 185 190
 Gly Lys Val Asp Arg Cys Thr Val Tyr Leu Ile Asp Lys Asn Met Tyr
 195 200 205
 Gln Pro Arg Gln His Tyr Phe Asn His Val Lys Glu Val Ile Ala Ser
 210 215 220
 Gln His Ile Asp Cys Gln His Gln Val Ala Asp Ala Tyr Tyr Ser Arg
 225 230 235 240
 Phe Lys Lys Ser Gln Ile Glu Asn Tyr Phe Leu Ala Ile Cys Tyr Gln
 245 250 255
 Gln Asp Ser Ile Asp Asp Tyr Lys Asn Cys Ile Ser Tyr Arg Ser Leu
 260 265 270
 Thr Gly Ser
 275

<210> 6496

<211> 580

<212> PRT

<213> Enterobacter cloacae

<400> 6496

Val	Ser	Pro	Arg	Arg	Thr	Thr	Ala	Ser	Ala	Lys	Cys	Ala	Trp	Thr	Ser
1				5					10					15	
Ser	Leu	Thr	Ala	Val	Arg	Cys	Gly	Leu	Gly	Thr	Ser	Pro	Ala	Thr	Lys
			20				25						30		
Ala	Ile	Ser	Ser	Gly	Arg	Lys	Gln	Lys	Glu	Arg	Arg	Asn	Val	Thr	Met
		35					40					45			
Lys	Lys	Ile	Phe	Ala	Leu	Asn	Leu	Leu	Leu	Met	Ser	Ala	Ala	Ala	Gln
	50					55					60				
Ala	Gln	Glu	Leu	Pro	Tyr	Phe	Ala	Ile	Asn	Asn	Pro	Asp	Asn	Asn	Gly
65					70				75						80
Thr	Gly	Asn	Ser	Ala	Gly	Leu	Phe	Ser	Leu	Asn	Ser	Thr	Ser	Thr	Ala
				85					90					95	
Phe	Leu	His	Gly	Ser	Arg	Glu	Trp	Pro	Thr	Leu	Ser	Ala	Lys	Thr	Asn
			100					105					110		
Asn	Gly	Ile	Ala	Thr	Tyr	Ile	Pro	Asp	Asn	Ser	Phe	Asn	Gly	Pro	Ala
		115					120					125			
Gly	Ser	Ala	Leu	Thr	Ile	Asp	Phe	Ser	Val	Thr	Gly	Ser	Ser	Ala	Ser
	130					135					140				
Pro	Phe	Phe	Lys	Gly	Thr	Ala	Cys	Ser	Ser	Ser	Cys	Gly	Asn	Thr	Gly
145					150					155					160
Tyr	Thr	Pro	Thr	Thr	Ser	Tyr	Thr	Asp	Thr	Ser	Met	Val	Val	Lys	Pro
				165					170					175	
Pro	Val	Met	Glu	Pro	Gly	Thr	Ser	Tyr	Gly	Arg	Trp	Val	Leu	Gly	Asp
			180					185					190		
Pro	Phe	Phe	Asn	Tyr	Leu	Leu	Asn	Ala	Ala	Pro	Gly	Asp	Glu	Val	Thr
		195					200					205			
Ile	Thr	Ser	Thr	Pro	Gln	Ile	Ser	Ser	Ile	Asn	Lys	Val	Thr	Thr	Thr
	210					215					220				
Asn	Thr	Leu	His	Lys	Val	Gly	Thr	Leu	Thr	Met	Thr	Asn	Ser	Arg	Ala
225					230					235					240
Leu	Asn	Leu	Gly	Ile	Asp	Pro	Ile	Ser	Gly	Glu	Val	Thr	Ile	Val	Asp
			245						250					255	
Gly	Ser	Thr	Gly	Ala	Thr	Cys	Thr	Lys	Tyr	Thr	Arg	Asn	Thr	Val	Ser
			260					265					270		
Gly	Val	Leu	Cys	Asp	Leu	Leu	Glu	Tyr	Thr	Phe	Val	Gly	Glu	Asp	Ile
		275					280					285			
Ser	Gly	Tyr	Asn	Gly	Gly	Leu	Ala	Leu	Thr	Ser	Ser	Arg	Val	Asn	Ser
	290					295					300				
Val	Leu	Gln	Ser	His	Met	Ser	Gly	Gly	Thr	Gly	Leu	Ala	Ala	Glu	Leu
305					310					315					320
Thr	Phe	Asp	Glu	Asn	Thr	Trp	Tyr	Ser	Ile	Ser	Gly	Gly	Ile	Leu	Ser
				325					330					335	
Asp	Thr	Arg	Val	Leu	Ala	Asn	Thr	Phe	Leu	Ala	Ala	Pro	Gln	Lys	Asn
			340					345					350		
Gly	Gly	Lys	Ala	Tyr	Leu	Lys	Ile	Phe	Leu	Pro	Lys	Ala	Leu	Ile	Leu
		355					360					365			
Ser	Val	Ala	Gln	Ala	Gly	Asp	Gly	Ser	Asn	Ile	Gly	Asn	Ile	Val	Ser
	370					375					380				
Leu	Cys	Leu	Thr	Pro	Gly	Asn	Ser	Ser	Leu	Ala	Ala	Asp	Phe	Cys	Phe
385					390					395					400
Gln	Pro	Gly	Gly	Gly	Leu	Val	Ile	Asn	Pro	Ile	Glu	Pro	Gly	Leu	Glu
				405					410					415	
Ile	Val	Pro	Asp	Asn	Pro	Asp	Tyr	Thr	Leu	Asp	Pro	Asp	Gly	Leu	Gly
			420					425					430		
Gly	Ser	Gly	Lys	Gly	Ile	Ile	Gly	Glu	Ala	Pro	Ile	Glu	Ile	Pro	Tyr
		435					440					445			
Thr	Ile	Thr	Tyr	Ser	Gly	Ala	Gln	Lys	Asp	Ala	Ala	Ile	Ala	Val	Thr
	450					455					460				
Val	Lys	Val	Thr	Gly	Pro	Thr	Gln	Ser	Leu	Asn	Gly	Val	Asp	Tyr	Cys
465					470					475					480

Ala Phe Ser Gly Asn Gly Phe Thr Val Pro Ile Pro Gly Asn Val Leu
 485 490 495
 Val Gly Lys Ser Gln Thr Leu Met Ala His Asn Cys Lys Gly Glu Val
 500 505 510
 Leu Ser Ile Pro Ala Pro Ala Thr His Ala Glu Glu Trp Asp Lys Met
 515 520 525
 Ser Ser Gly Val Thr Asp Met Trp Leu Trp Lys Thr Pro Leu Ile Leu
 530 535 540
 Gln Phe Val Met Asp Asn Pro Val Ser Lys Thr Thr Tyr Asp Gly Asn
 545 550 555 560
 Ser Trp Phe Gly Glu Val Thr Ala Gln Gly Arg Ile Asp Val Ser Ala
 565 570 575
 Ser Trp Asn
 580

<210> 6497

<211> 220

<212> PRT

<213> Enterobacter cloacae

<400> 6497

Ser Thr Met Thr Gly Lys Phe Leu Ala Ile Phe Ala Ile Asn Cys Phe
 1 5 10 15
 Ile Ser Thr Gly Ala Asn Ala Leu Ile Ile Glu Ser Leu Asn Ile Asp
 20 25 30
 Phe Leu Pro Glu Arg Glu Val Val Phe Gln Pro Ile Lys Asn Asp Thr
 35 40 45
 Ser Glu Arg Gln Asn Tyr Thr Val Ser Leu Ile Gln Val Asp Val Pro
 50 55 60
 Lys Glu Lys Gly Lys Glu Thr Glu Ile Lys Asp Gly Glu Val Met Tyr
 65 70 75 80
 Ser Pro Lys Gln Leu Thr Leu Gly Ser Gly Glu Arg Ala Gly Phe Lys
 85 90 95
 Phe Tyr Tyr Thr Gly Pro His Asp Asn Lys Glu Arg Tyr Tyr Arg Val
 100 105 110
 Lys Phe Thr Glu Thr Pro Leu Gln Ala Lys Val Ile Thr Arg Lys Gly
 115 120 125
 Gln Arg Ile Gln Ser Asp Val Val Ser Leu Glu Ala Ile Leu Ile
 130 135 140
 Val Arg Pro Trp Thr Arg His Phe Asp Tyr Ala Phe Ser Asn Gly Val
 145 150 155 160
 Val Ser Asn Thr Gly Asn Thr Tyr Phe Lys Tyr Val Ser Ser Val Gly
 165 170 175
 Cys Ser Thr Gln Tyr Asn Asn Ser Lys Tyr Ile Pro Pro Gly Gln Arg
 180 185 190
 Leu Glu Ile Asp Asn Ala Gly Gln Ala Ala Arg Arg Met Ile Ile Tyr
 195 200 205
 Gly Asn Lys Ile Ile Pro Leu Thr Thr Cys Pro
 210 215 220

<210> 6498

<211> 357

<212> PRT

<213> Enterobacter cloacae

<400> 6498

Glu Glu Pro Met Met Lys Asn Thr Thr Tyr Leu Thr Asp Glu Asp Arg
 1 5 10 15
 Trp Gln Ala Val Leu Ala Arg Asp Pro Arg Ala Asp Asn Gln Phe Val
 20 25 30
 Phe Ala Val Gln Thr Thr Gly Ile Tyr Cys Arg Pro Ser Cys Arg Ala


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<210> 6499
<211> 556
<212> PRT
<213> Enterobacter cloacae
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<400> 6499															
Phe	Phe	Leu	Ser	Gly	Leu	Leu	Cys	Met	Gln	Leu	Leu	Leu	Leu	Val	Trp
1				5					10					15	
Arg	Gln	Tyr	Arg	Trp	Pro	Phe	Ile	Ala	Val	Met	Ala	Leu	Ser	Leu	Ala
			20					25					30		
Ser	Ala	Ala	Leu	Gly	Ile	Gly	Leu	Ile	Ala	Phe	Ile	Asn	Val	Arg	Leu
		35					40					45			
Ile	Glu	Met	Val	Asp	Thr	Ser	Leu	Ser	Val	Leu	Pro	Glu	Phe	Leu	Gly
	50					55					60				
Leu	Leu	Leu	Leu	Leu	Met	Ala	Val	Thr	Leu	Gly	Ser	Gln	Leu	Ala	Leu
65					70					75					80
Thr	Ala	Leu	Gly	His	His	Phe	Val	Phe	Arg	Leu	Arg	Ser	Glu	Phe	Ile
				85					90					95	
Lys	Arg	Ile	Leu	Asp	Thr	Gln	Val	Glu	Arg	Ile	Glu	Gln	Leu	Gly	Ser

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<210> 6500
<211> 345
<212> PRT
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<213> Enterobacter cloacae

<400> 6500

Leu Cys Pro Val Pro Gly Ser Leu Val Gly Glu Asp Asp Leu Tyr Gly
 1 5 10 15
 Lys Val Asp Gly Leu His Tyr Phe Ser Asp Asp Asp Ser Ala Asp Gly
 20 25 30
 Asp Gln Thr Tyr Met Arg Leu Gly Phe Lys Gly Glu Thr Gln Val Asn
 35 40 45
 Asp Gln Leu Thr Gly Tyr Gly Gln Trp Glu Tyr Gln Ile Gln Gly Asn
 50 55 60
 Ser Gly Glu Asn Glu Asn Ser Trp Thr Arg Val Ala Phe Ala Gly
 65 70 75 80
 Leu Lys Phe Ala Asp Ala Gly Ser Phe Asp Tyr Gly Arg Asn Tyr Gly
 85 90 95
 Val Val Tyr Asp Val Thr Ser Trp Thr Asp Val Leu Pro Glu Phe Gly
 100 105 110
 Gly Asp Thr Tyr Gly Ser Asp Asn Phe Met Gln Gln Arg Gly Asn Gly
 115 120 125
 Phe Ala Thr Tyr Arg Asn Gln Asp Phe Phe Gly Leu Val Asp Gly Leu
 130 135 140
 Asn Phe Ala Leu Gln Tyr Gln Gly Lys Asn Gly Ser Ala Ser Gly Glu
 145 150 155 160
 Gly Gln Thr Asn Asn Gly Arg Glu Ala Leu Arg Gln Asn Gly Asp Gly
 165 170 175
 Tyr Gly Gly Ser Leu Thr Tyr Asp Leu Gly Glu Gly Phe Ala Ile Gly
 180 185 190
 Thr Ala Val Thr Ser Ser Lys Arg Thr Ala Asp Gln Asn Ala Ala Gly
 195 200 205
 Tyr Tyr Gly Glu Gly Asp Arg Ala Glu Thr Tyr Thr Gly Gly Leu Lys
 210 215 220
 Tyr Asp Ala Asn Asn Ile Tyr Leu Ala Ala Gln Tyr Thr Gln Thr Tyr
 225 230 235 240
 Asn Ala Thr Arg Ala Gly Asp Leu Gly Trp Ala Asn Lys Ala His Asn
 245 250 255
 Phe Glu Val Val Ala Gln Tyr Gln Phe Asp Phe Gly Leu Arg Pro Ser
 260 265 270
 Val Ala Tyr Leu Gln Ser Lys Gly Lys Asp Leu Glu Asn Gly Tyr Gly
 275 280 285
 Asp Gln Asp Leu Leu Lys Tyr Val Asp Val Gly Ala Thr Tyr Tyr Phe
 290 295 300
 Asn Lys Asn Met Ser Thr Tyr Val Asp Tyr Lys Ile Asn Leu Val Asp
 305 310 315 320
 Glu Asn Asp Phe Thr Arg Ala Ala Gly Ile Gly Thr Asp Asp Ile Val
 325 330 335
 Ala Leu Gly Leu Val Tyr Gln Phe
 340 345

<210> 6501

<211> 131

<212> PRT

<213> Enterobacter cloacae

<400> 6501

Pro Met Asp Met Thr Phe Leu Arg Ala Ser Val Leu Ala Thr Phe Leu
 1 5 10 15
 Leu Leu Thr Ala Cys Asp Ser Ser Thr Gln Pro Ala Lys Ile Asp Ala
 20 25 30
 Pro Ala Ala Thr Val Leu Glu Gly Lys Thr Met Gly Thr Phe Trp Arg
 35 40 45
 Val Ser Val Met Asp Ile Asp Lys Ser Arg Ala Glu Glu Leu Arg Gly

50		55		60															
Lys	Ile	Gln	Ala	Gln	Leu	Asp	Ala	Asp	Asp	Gln	Leu	Leu	Ser	Thr	Tyr				
65					70					75					80				
Lys	Asn	Asp	Ser	Ala	Leu	Met	Arg	Phe	Asn	Arg	Ser	Ser	Gln	His	Leu				
				85					90					95					
Ala	Val	Ala	Gly	Glu	Arg	Ser	Asn	Gly	Arg	Tyr	Arg	His	Gly	Ser	His				
			100					105					110						
Ala	Arg	Gly	Lys	Gln	Asn	Gln	Arg	Arg	Asn	Gly	Cys	Asp	Gly	Gly	Ala				
		115					120					125							
Arg	Trp																		
130																			

<210> 6502

<211> 206

<212> PRT

<213> Enterobacter cloacae

<400> 6502

Asn	Leu	Trp	Gly	Phe	Gly	Pro	Asn	Lys	Gln	Pro	Val	Thr	Thr	Pro	Asp				
1				5					10					15					
Gln	Ala	Ala	Ile	Asp	Asp	Ala	Arg	Ala	Arg	Thr	Gly	Leu	Gln	His	Leu				
			20					25					30						
Ala	Val	Ile	Ser	Gln	Tyr	Gly	Gln	Gln	Tyr	Leu	Gln	Lys	Asp	Ile	Pro				
		35				40					45								
Asp	Leu	Phe	Val	Asp	Leu	Ser	Thr	Val	Gly	Glu	Gly	Tyr	Ala	Ala	Asp				
	50					55					60								
His	Leu	Ala	Ala	Leu	Met	Ala	Gln	Glu	Gly	Ile	Pro	Arg	Tyr	Leu	Val				
65				70					75					80					
Ser	Val	Gly	Gly	Ala	Leu	Val	Ser	Arg	Gly	Met	Asn	Ala	Ser	Gly	Arg				
			85						90					95					
Pro	Trp	Arg	Val	Ala	Ile	Gln	Lys	Pro	Thr	Asp	Gln	Gln	Asn	Ala	Val				
			100				105						110						
Gln	Ala	Ile	Val	Asp	Ile	Asn	Gly	His	Gly	Ile	Ser	Thr	Ser	Gly	Ser				
		115				120						125							
Tyr	Arg	Asn	Tyr	Tyr	Glu	Leu	Asp	Gly	Lys	Arg	Ile	Ser	His	Val	Ile				
	130					135					140								
Asp	Pro	Gln	Thr	Gly	Arg	Pro	Ile	Thr	His	Asn	Leu	Val	Ser	Val	Thr				
145					150					155					160				
Val	Ile	Ala	Pro	Thr	Ala	Leu	Glu	Ala	Asp	Ala	Trp	Asp	Thr	Gly	Leu				
			165					170						175					
Met	Val	Leu	Gly	Thr	Glu	Lys	Ala	Lys	Glu	Val	Val	Arg	Gln	Glu	Gly				
		180					185						190						
Leu	Ala	Val	Tyr	Met	Ile	Thr	Lys	Glu	Ala	Asp	Gly	Phe							
		195					200					205							

<210> 6503

<211> 224

<212> PRT

<213> Enterobacter cloacae

<400> 6503

Gly	Glu	Gln	Pro	Gly	Gly	Ile	Met	Leu	Asp	Leu	Phe	Ala	Asp	Ala	Glu				
1				5					10					15					
Pro	Trp	Gln	Glu	Ser	Leu	Ala	Pro	Gly	Ala	Thr	Ile	Leu	Arg	Arg	Phe				
		20						25					30						
Ala	Leu	Ser	Arg	Ala	Ala	Ala	Leu	Phe	Asp	Gly	Ile	Lys	Ala	Val	Thr				
		35					40					45							
Ala	Arg	Ser	Pro	Phe	Arg	His	Met	Val	Thr	Pro	Gly	Gly	Tyr	Thr	Met				
	50					55					60								
Ser	Val	Ala	Met	Thr	Asn	Cys	Gly	Glu	Leu	Gly	Trp	Ala	Thr	Asn	Glu				
65					70					75					80				

Arg Gly Tyr Val Tyr Ala Ala Tyr Asp Pro Leu Thr Asp Gln Pro Trp
 85 90 95
 Pro Pro Met Pro Glu Ala Phe Gln Ala Leu Cys His Asp Ala Ala Val
 100 105 110
 Ala Ala Gly Tyr Pro Asp Phe Arg Pro Asp Ala Cys Leu Ile Asn Arg
 115 120 125
 Tyr Ala Val Gly Ala Lys Leu Ser Leu His Gln Asp Lys Asp Glu Pro
 130 135 140
 Asp Leu Arg Ala Pro Ile Val Ser Val Ser Leu Gly Leu Pro Ala Val
 145 150 155 160
 Phe Gln Phe Gly Gly Leu Arg Arg Asn Asp Pro Leu Lys Arg Leu Met
 165 170 175
 Leu Glu His Gly Asp Val Val Val Trp Gly Gly Glu Ser Arg Leu Phe
 180 185 190
 Tyr His Gly Ile Gln Pro Leu Lys Pro Gly Asp His Pro Val Ala Gly
 195 200 205
 Ala Phe Arg Tyr Asn Leu Thr Phe Arg Gln Ala Ala Tyr Arg Glu
 210 215 220

<210> 6504

<211> 480

<212> PRT

<213> Enterobacter cloacae

<400> 6504

Leu Met Ser Val Leu Lys Lys Asn Ser Ala Arg Gln Arg Asp Gln Glu
 1 5 10 15
 Arg Ala Arg Leu Ile Trp Leu Leu Thr Thr Asp Lys Ala Val Thr Ser
 20 25 30
 Thr Leu Leu Gly Lys Leu Thr Leu Ala Glu Gln Tyr Asp Val Gly Thr
 35 40 45
 Leu Ala Asp Asp Ile Ala Glu Val Gly Ala Leu Val Ala His Leu Pro
 50 55 60
 Pro Pro Asp Leu Ala Asp Thr Leu Glu Ala Leu Pro Ser Glu Glu Arg
 65 70 75 80
 His Ala Leu Trp Arg Leu Val Gln Asp His Glu Arg Gly Gln Val Leu
 85 90 95
 Leu Glu Ala Ser Glu Asn Val Trp Asp Asp Leu Ile Asp Glu Met Ser
 100 105 110
 Asp Arg Asp Ile Leu Asp Ala Leu Gln Thr Leu Asp Ile Asp Glu Gln
 115 120 125
 Ile Tyr Leu Val Gln His Leu Pro Arg Asn Leu Thr Gly Arg Leu Leu
 130 135 140
 Ala Ser Leu Pro Ala Glu Glu Arg Ala Arg Val Arg Gln Val Met His
 145 150 155 160
 Tyr Glu Lys Asn Ser Val Gly Ala Ile Met Glu Phe Gly Val Ile Thr
 165 170 175
 Val Arg Pro Asp Val Thr Leu Gly Thr Val Gln Arg Tyr Leu Arg Arg
 180 185 190
 Leu Gly Ser Met Pro Asp Asn Thr Asp Lys Leu Phe Val Thr Ser Arg
 195 200 205
 Asp Lys Thr Leu Leu Gly Glu Leu Glu Leu Lys Thr Ile Leu Leu Asn
 210 215 220
 Ser Thr Gln Gln Arg Val Ser Glu Val Met Glu Thr Glu Pro Met Val
 225 230 235 240
 Phe Ser Pro Glu Asp Ala Glu Lys Ala Ala Arg Thr Phe Glu Arg
 245 250 255
 Asp Asp Leu Val Ser Ala Ala Val Val Asp Ser Val Gly Lys Leu Met
 260 265 270
 Gly Arg Leu Thr Ile Asp Glu Ile Val Asp Val Val Tyr Glu Glu Thr
 275 280 285

Asp Asn Asp Leu Arg Ala Leu Gly Gly Ile Ser Ala Glu Asp Asp Val
 290 295 300
 His Ala Ser Val Gly Lys Ala Val Lys Thr Arg Trp Ala Trp Leu Ala
 305 310 315 320
 Ile Asn Leu Cys Thr Ala Phe Val Ala Ser Arg Val Ile Asp Gly Phe
 325 330 335
 Glu His Thr Ile Ser Gln Leu Val Ala Leu Ala Ser Leu Met Pro Ile
 340 345 350
 Val Ala Gly Ile Gly Gly Asn Thr Gly Asn Gln Thr Ile Thr Met Ile
 355 360 365
 Val Arg Ala Leu Ala Leu Glu Asn Ile Gln Pro Gly Asn Phe Ser Trp
 370 375 380
 Leu Ile Phe Arg Glu Met Gly Val Ala Leu Ile Asn Gly Leu Val Trp
 385 390 395 400
 Gly Gly Ile Met Gly Gly Ile Thr Trp Trp Leu Tyr Asp Asp Met Ala
 405 410 415
 Leu Gly Gly Val Met Met Leu Ala Met Val Leu Asn Leu Leu Val Ala
 420 425 430
 Ala Met Met Gly Val Ile Ile Pro Leu Thr Met Thr Arg Leu Gly Arg
 435 440 445
 Asp Pro Ala Val Gly Ser Ser Val Met Ile Thr Ala Ile Thr Asp Thr
 450 455 460
 Gly Gly Phe Phe Ile Phe Leu Gly Leu Ala Thr Ile Phe Leu Leu
 465 470 475 480

<210> 6505

<211> 68

<212> PRT

<213> Enterobacter cloacae

<400> 6505

Ser Ala Ser Ala Ala Pro Tyr Pro Ala Arg Arg Thr Gly Ser Glu Ser
 1 5 10 15
 Cys Leu Pro Ser Pro Pro Arg Ala Glu Cys Thr Val Arg Arg Val Asp
 20 25 30
 Gly Pro Ser Gly Gln Ser Pro Ala Arg Arg Asn Leu Pro Pro Pro Ser
 35 40 45
 Pro Trp Pro Asp Ala Arg Arg Ala Gly Lys Gly Arg Asn Arg Ala Pro
 50 55 60
 Arg Arg Arg
 65

<210> 6506

<211> 326

<212> PRT

<213> Enterobacter cloacae

<400> 6506

Leu Pro Cys Ser Phe Leu Leu Ala Val Gly Leu Asn Ala Val Ser Leu
 1 5 10 15
 Ala Ala Lys Ala Asp Ala Pro Lys Glu Gln Glu Thr Asp Val Leu Leu
 20 25 30
 Ile Gly Gly Gly Ile Met Ser Ala Thr Leu Gly Thr Tyr Leu Gln Glu
 35 40 45
 Leu Glu Pro Asn Trp Ser Met Thr Met Val Glu Arg Leu Asp Gly Val
 50 55 60
 Ala Gln Glu Ser Ser Asn Gly Trp Asn Asn Ala Gly Thr Gly His Ser
 65 70 75 80
 Ala Leu Met Glu Leu Asn Tyr Thr Pro Gln Lys Lys Asp Gly Ser Ile
 85 90 95
 Ser Ile Glu Lys Ala Val Glu Ile Asn Glu Ala Phe Gln Ile Ser Arg

100					105					110					
Gln	Phe	Trp	Ser	His	Gln	Val	Asn	Ser	Gly	Val	Leu	His	Asn	Pro	His
115					120					125					
Ser	Phe	Ile	Asn	Thr	Val	Pro	His	Met	Ser	Phe	Val	Trp	Gly	Asp	Gln
130					135					140					
Asn	Val	Asn	Phe	Leu	Arg	Ala	Arg	Tyr	Ala	Ala	Leu	Gln	Gln	Ser	Thr
145					150					155					
Leu	Phe	Arg	Gly	Met	Lys	Tyr	Ser	Glu	Asp	His	Ala	Gln	Ile	Lys	Glu
165					170					175					
Trp	Ala	Pro	Leu	Val	Met	Glu	Gly	Arg	Asp	Pro	Asn	Gln	Lys	Val	Ala
180					185					190					
Ala	Thr	Arg	Thr	Glu	Ile	Gly	Thr	Asp	Val	Asn	Tyr	Gly	Glu	Ile	Thr
195					200					205					
Arg	Gln	Leu	Val	Ala	Ser	Leu	Lys	Lys	Lys	Glu	Asn	Phe	Asn	Leu	Gln
210					215					220					
Leu	Ser	Ser	Glu	Val	Arg	Gly	Phe	Lys	Arg	Asn	Ala	Asp	Asn	Ser	Trp
225					230					235					
Ser	Val	Thr	Val	Ala	Asp	Leu	Lys	Asn	Asn	Glu	Ala	Glu	His	Val	Ile
245					250					255					
Lys	Ala	Lys	Phe	Val	Phe	Ile	Gly	Ala	Gly	Gly	Ala	Ala	Leu	Lys	Leu
260					265					270					
Leu	Gln	Glu	Ser	Gly	Ile	Pro	Glu	Ala	Asp	Asp	Tyr	Ala	Gly	Phe	Pro
275					280					285					
Val	Gly	Gly	Gln	Phe	Leu	Val	Ser	Glu	Asn	Pro	Glu	Val	Val	Asn	Arg
290					295					300					
His	Leu	Pro	Lys	Val	Ser	Gly	Gln	Tyr	Ser	Thr	Thr	Arg	Arg	Gln	Asp
305					310					315					
Arg	Val	Arg	Leu	Glu	Ala										
325															

<210> 6507

<211> 467

<212> PRT

<213> Enterobacter cloacae

<400> 6507

Ile	Leu	Phe	Lys	Gly	Tyr	Glu	Ile	Ile	Val	Ile	Val	Lys	Phe	Asn	Asp
1			5						10					15	
Gly	Leu	Phe	Val	Gly	Phe	Trp	Gln	Thr	Gly	Trp	His	Pro	Thr	Ile	Phe
			20				25						30		
Leu	Ala	Met	Met	Leu	His	Phe	Val	Ile	Ala	Arg	Thr	Glu	Ala	Cys	Pro
			35				40						45		
Tyr	Gln	Arg	Ile	Val	Met	Ser	Leu	Pro	His	Ser	Ser	Leu	Pro	Gln	Glu
			50				55						60		
Gly	His	Val	Ala	Thr	Val	Leu	Arg	Ser	Pro	His	Arg	Leu	Met	Arg	Glu
			65				70						75		
Thr	Leu	Ala	Gly	Val	Ile	Thr	Ala	Leu	Ala	Leu	Ile	Pro	Glu	Val	Ile
			85				90						95		
Ser	Phe	Ser	Val	Val	Ala	Gly	Val	Asp	Pro	Lys	Val	Ser	Leu	Ile	Ala
			100				105						110		
Ser	Val	Val	Leu	Cys	Phe	Ala	Leu	Ser	Leu	Leu	Gly	Gly	Arg	Pro	Ala
			115				120						125		
Met	Val	Thr	Ala	Ala	Ala	Gly	Ser	Val	Ala	Leu	Val	Ile	Gly	Pro	Met
			130				135						140		
Val	His	Gln	His	Gly	Val	Gln	Tyr	Ile	Leu	Pro	Ala	Val	Val	Met	Ala
			145				150						155		
Gly	Met	Ile	Gln	Ile	Leu	Phe	Gly	Ala	Leu	Gly	Met	Ala	Arg	Leu	Met
			165				170						175		
Arg	Phe	Ile	Pro	Gln	Ser	Val	Met	Thr	Gly	Phe	Val	Asn	Ala	Leu	Gly
			180				185						190		
Ile	Leu	Ile	Phe	Phe	Ala	Gln	Val	Pro	His	Phe	Trp	Ser	Arg	Ser	Pro

	195		200		205										
Leu	Ile	Val	Gly	Leu	Phe	Val	Leu	Thr	Leu	Leu	Ile	Val	Leu	Trp	Val
	210					215					220				
Pro	Arg	Tyr	Ile	Lys	Ser	Val	Pro	Ser	Pro	Leu	Ile	Ala	Ile	Val	Leu
225					230					235					240
Leu	Thr	Leu	Phe	Thr	Val	Thr	Ser	Gly	Gln	Ile	Leu	Pro	Thr	Val	Gly
				245					250					255	
Asp	Glu	Gly	Ser	Met	Ser	Gly	Gly	Leu	Pro	Gly	Phe	Thr	Gln	Leu	Leu
			260					265					270		
Val	Pro	Leu	Asn	Leu	Glu	Thr	Leu	Ser	Ile	Ile	Trp	Pro	Cys	Ala	Leu
		275					280					285			
Ser	Ile	Ala	Phe	Val	Gly	Leu	Leu	Glu	Ser	Leu	Leu	Thr	Ala	Lys	Leu
	290					295					300				
Val	Asp	Glu	Leu	Thr	Ala	Thr	Pro	Ser	Ser	Lys	Arg	Arg	Glu	Ser	Ile
305					310					315					320
Gly	Leu	Gly	Val	Gly	Asn	Ile	Met	Ala	Gly	Phe	Tyr	Gly	Gly	Ile	Ala
				325					330					335	
Gly	Cys	Ala	Met	Ile	Gly	Gln	Thr	Ile	Val	Asn	Val	Glu	Met	Gly	Lys
			340					345					350		
Gly	Arg	Ser	Arg	Ile	Ser	Thr	Leu	Ala	Ala	Gly	Ile	Val	Leu	Leu	Val
		355					360					365			
Leu	Val	Thr	Ala	Leu	Ser	Glu	Val	Met	Ala	Lys	Ile	Pro	Met	Ala	Val
	370					375					380				
Leu	Ala	Gly	Ile	Met	Ala	Ile	Val	Ala	Val	Lys	Thr	Phe	Ser	Trp	His
385					390					395					400
Ser	Val	Gln	Pro	Gly	Thr	Leu	Lys	Asn	Ala	Pro	Val	Ala	Glu	Thr	Val
				405					410					415	
Val	Met	Leu	Val	Thr	Val	Val	Ala	Thr	Val	Tyr	Thr	Gly	Asn	Leu	Ala
			420					425					430		
Ile	Gly	Val	Leu	Gly	Gly	Ile	Val	Met	Met	Phe	Ile	Leu	Pro	Ala	Arg
		435					440					445			
Leu	Lys	Gln	Lys	Ala	Leu	Ala	Arg	Glu	Glu	Lys	Ser	Ser	Pro	Val	Gln
	450					455					460				
Glu	Lys														
465															

<210> 6508

<211> 202

<212> PRT

<213> Enterobacter cloacae

<400> 6508

Ile	Met	Gly	Ile	Phe	Ser	Arg	Phe	Ala	Asp	Ile	Val	Asn	Ala	Asn	Ile
1				5					10					15	
Asn	Ser	Leu	Leu	Glu	Lys	Ala	Glu	Asp	Pro	Gln	Lys	Leu	Val	Arg	Leu
		20						25					30		
Met	Ile	Gln	Glu	Met	Glu	Asp	Thr	Leu	Val	Glu	Val	Arg	Ser	Thr	Ser
		35					40					45			
Ala	Arg	Ala	Leu	Ala	Glu	Lys	Lys	Gln	Leu	Thr	Arg	Arg	Ile	Glu	Gln
		50				55					60				
Ala	Thr	Ala	Gln	Leu	Asn	Glu	Trp	Gln	Glu	Lys	Ala	Glu	Leu	Ala	Leu
65					70					75					80
Arg	Lys	Asp	Lys	Glu	Asp	Leu	Ala	Arg	Ala	Ala	Leu	Ile	Glu	Lys	Gln
				85					90					95	
Lys	Leu	Thr	Asp	Met	Val	Ala	Thr	Leu	Glu	His	Glu	Val	Thr	Leu	Val
			100					105					110		
Asp	Asp	Thr	Leu	Thr	Arg	Met	Lys	Lys	Glu	Ile	Gly	Glu	Leu	Glu	Asn
		115					120					125			
Lys	Leu	Ser	Glu	Thr	Arg	Ala	Arg	Gln	Gln	Gly	Ala	Gly	Ala	Ala	Pro
	130					135					140				
Pro	Gly	Leu	Gln	Ala	Arg	Pro	Ala	Thr	Cys	Val	Ala	Asn	Trp	Thr	Ala

145					150					155				160
Ala	Asn	Trp	Met	Lys	Gln	Trp	Arg	Val	Ser	Asn	Arg	Leu	Asn	Val
				165					170					175
Ser	Thr	Thr	Trp	Lys	Arg	Lys	Pro	Lys	Ala	Thr	Ala	Ser	Val	Ser
			180					185					190	
Lys	Pro	Trp	Ile	Ser	Ser	Leu	Leu	Thr						
		195					200							

<210> 6509

<211> 85

<212> PRT

<213> Enterobacter cloacae

<400> 6509

Ala	Cys	Arg	Ile	Val	Arg	Gln	Gly	Val	His	Met	Ser	Ala	Leu	Phe	Leu
1				5				10						15	
Ala	Ile	Pro	Leu	Thr	Ile	Phe	Val	Leu	Phe	Val	Leu	Pro	Ile	Trp	Leu
			20					25					30		
Trp	Leu	His	Tyr	Ser	Asn	Arg	Ser	Ser	Arg	Gly	Glu	Leu	Ser	Gln	Ser
		35					40					45			
Glu	Gln	Gln	Arg	Leu	Ala	Gln	Leu	Ser	Ala	Glu	Ala	Asn	Lys	Met	Arg
	50					55					60				
Glu	Arg	Ile	Gln	Ala	Leu	Glu	Ala	Ile	Leu	Asp	Ala	Glu	His	Pro	Asn
65					70				75						80
Trp	Arg	Glu	Arg												
															85

<210> 6510

<211> 205

<212> PRT

<213> Enterobacter cloacae

<400> 6510

Leu	Pro	Leu	Asn	Glu	Gly	Ser	Pro	Met	Ala	Thr	Lys	Arg	Arg	Ala	Glu
1				5				10						15	
Thr	Ala	Gln	Glu	Asn	Arg	Glu	Lys	Met	Ile	Gln	Ala	Ala	Arg	Lys	Ala
			20					25					30		
Phe	Ala	Glu	Lys	Gly	Tyr	Ala	Ala	Ala	Ser	Met	Asp	Glu	Leu	Thr	Ala
		35					40					45			
Ser	Val	Gly	Leu	Thr	Arg	Gly	Ala	Leu	Tyr	His	Asn	Phe	Asn	Asp	Lys
	50					55				60					
Lys	Gly	Leu	Leu	Ala	Ala	Val	Val	Ala	Gln	Ile	Asp	Ser	Glu	Met	Ala
65				70					75						80
Ala	Asn	Ala	Lys	Ala	Ile	Ala	Ala	Ala	Ala	Asp	Asp	Asp	Trp	Glu	Arg
			85					90						95	
Leu	Leu	Ala	Glu	Gly	Ile	Ala	Tyr	Ile	Lys	Met	Ala	Leu	Val	Pro	Glu
		100						105					110		
Val	Gln	Arg	Ile	Val	Leu	Leu	Asp	Gly	Pro	Ala	Val	Leu	Gly	Asp	Pro
		115					120					125			
Ala	Gln	Trp	Pro	Ser	Gln	Asn	Asn	Cys	Leu	Glu	Ser	Thr	Arg	Gln	Thr
	130				135						140				
Ile	Glu	Lys	Met	Met	Glu	Cys	Asn	Val	Ile	Lys	Lys	Met	Asp	Ala	Arg
145				150					155						160
Val	Ala	Ala	His	Leu	Leu	Asn	Gly	Ala	Ala	Leu	Asn	Ala	Ala	Leu	Leu
			165					170					175		
Ile	Ala	Ala	Ser	Asp	Glu	Pro	Gln	Lys	Thr	Leu	Pro	His	Ala	Ile	Glu
			180					185					190		
Val	Phe	Thr	Leu	Leu	Ala	Ser	Gly	Leu	Arg	Asn	Gly				
		195					200						205		

<210> 6511

<211> 98
 <212> PRT
 <213> Enterobacter cloacae

<400> 6511

```

Lys Gln Thr Gln Arg Asn Pro Cys Thr Ser Thr Gly Arg Trp Arg Cys
1      5      10      15
Pro Thr Arg Ala Ala Ser Ser Ser Arg Asp Val Arg Arg Gln Leu Asp
20      25      30
Ser Gly Lys Leu Asp Glu Ala Met Ala Arg Phe Glu Ser Phe Glu Arg
35      40      45
Arg Ile Asp His Met Glu Ala Glu Ala Glu Ser His Ser Ile Gly Lys
50      55      60
Gln Lys Thr Leu Asp Gln Gln Phe Ala Asp Leu Lys Ala Asp Asp Glu
65      70      75      80
Ile Ser Glu Gln Leu Ala Ala Leu Lys Ala Lys Met Lys Gln Asp Asn
85      90      95
Gln

```

<210> 6512
 <211> 143
 <212> PRT
 <213> Enterobacter cloacae

<400> 6512

```

Asn Ala Arg Thr Tyr Ser Gly Ala Gly Ser His Pro Gly Arg Gly Thr
1      5      10      15
Pro Lys Leu Glu Gly Thr Val Met Ala Gly Leu Asn Leu Asn Lys Lys
20      25      30
Leu Trp Arg Ile Pro Gln Gln Gly Met Val Arg Gly Val Cys Ala Gly
35      40      45
Leu Ala His Tyr Leu Asp Val Pro Val Lys Leu Val Arg Val Val Thr
50      55      60
Val Leu Ser Ile Phe Phe Gly Leu Ala Phe Ile Thr Leu Val Ala Tyr
65      70      75      80
Ile Ile Leu Ser Phe Val Leu Asp Pro Met Pro Glu Gly Glu Leu Asn
85      90      95
Ala Glu Asn Thr Pro Thr Ser Arg Asp Leu Leu Asn Ala Val Asp Glu
100      105      110
Gln Leu Ser Ala Gly Glu Lys Arg Leu Arg Glu Met Glu Arg Tyr Val
115      120      125
Thr Ser Asp Thr Phe Thr Leu Arg Ser Arg Phe Arg Gln Leu
130      135      140

```

<210> 6513
 <211> 79
 <212> PRT
 <213> Enterobacter cloacae

<400> 6513

```

Glu Arg Thr Tyr Met Lys Gln Asn Trp Gln Gln Ala Gly Gln Lys Val
1      5      10      15
Lys Pro Gly Leu Lys Ile Ala Gly Lys Leu Val Leu Met Thr Ala Leu
20      25      30
Arg Tyr Gly Pro Ala Gly Val Ala Gly Trp Ala Ile Lys Ser Val Ala
35      40      45
Arg Lys Pro Val Arg Met Met Leu Ala Val Ala Leu Glu Pro Leu Leu
50      55      60
Gln Lys Leu Ala Lys Arg Val Ser Arg Arg Tyr Leu Ser Arg
65      70      75

```

<210> 6514
 <211> 332
 <212> PRT
 <213> Enterobacter cloacae

<400> 6514
 Gly Val Val Asn Phe Ile Met Ala Glu Tyr Lys Asp Asn Leu Leu Gly
 1 5 10 15
 Glu Ala Asn Ser Phe Leu Glu Val Leu Glu Gln Val Ser Arg Leu Ala
 20 25 30
 Pro Leu Asn Lys Pro Val Leu Ile Ile Gly Glu Arg Gly Thr Gly Lys
 35 40 45
 Glu Leu Ile Ala Asn Arg Leu His Phe Leu Ser Gly Arg Trp Asp Gly
 50 55 60
 Pro Phe Ile Ser Leu Asn Cys Ala Ala Leu Asn Glu Asn Leu Leu Asp
 65 70 75 80
 Thr Glu Leu Phe Gly His Glu Ala Gly Ala Phe Thr Gly Ala Gln Lys
 85 90 95
 Arg His Pro Gly Arg Phe Glu Arg Ala Asp Gly Gly Thr Leu Phe Leu
 100 105 110
 Asp Glu Leu Ala Thr Ala Pro Met Leu Val Gln Glu Lys Leu Leu Arg
 115 120 125
 Val Ile Glu Tyr Gly Glu Leu Glu Arg Val Gly Gly Ser Gln Pro Leu
 130 135 140
 Gln Val Asn Val Arg Leu Val Cys Ala Thr Asn Ala Asp Leu Pro Ala
 145 150 155 160
 Met Val Ala Glu Asp Lys Phe Arg Ala Asp Leu Leu Asp Arg Leu Ala
 165 170 175
 Phe Asp Val Val Gln Leu Pro Pro Leu Arg Glu Arg Arg Ser Asp Ile
 180 185 190
 Met Leu Leu Ala Asp Gln Phe Ala Ile Gln Met Cys Arg Glu Leu Gly
 195 200 205
 Leu Pro Leu Phe Pro Gly Phe Ser Glu Arg Ala Thr Gly Thr Leu Leu
 210 215 220
 Gly Tyr His Trp Pro Gly Asn Ile Arg Glu Leu Lys Asn Val Val Glu
 225 230 235 240
 Arg Ser Val Tyr Arg His Gly Ser Ser Glu Thr Glu Leu Asp Asn Ile
 245 250 255
 Ile Leu Asp Pro Phe Arg Arg Glu Asp Lys Gln Pro Pro Ala Pro Ala
 260 265 270
 Thr Arg Gln Gln Asp Pro Ala Leu Pro Leu Asp Leu Arg Gln Phe Gln
 275 280 285
 His Gln Gln Glu Lys Asn Leu Leu Glu Gln Ser Leu Lys Glu Ala Lys
 290 295 300
 Tyr Asn Gln Lys Arg Ala Ala Glu Leu Leu Gly Leu Thr Tyr His Gln
 305 310 315 320
 Leu Arg Ala Leu Leu Lys Lys His Gln Met Arg
 325 330

<210> 6515
 <211> 330
 <212> PRT
 <213> Enterobacter cloacae

<400> 6515
 Glu Arg Thr Arg Gly Glu Glu Thr Met Ile Ile Phe Thr Leu Arg Arg
 1 5 10 15
 Leu Leu Leu Leu Leu Val Thr Leu Phe Phe Leu Thr Phe Val Gly Phe
 20 25 30
 Ser Leu Ser Tyr Phe Thr Pro His Ala Pro Leu Gln Gly Ser Ser Leu

```
<210> 6516
<211> 347
<212> PRT
<213> Enterobacter cloacae
```

Pro	Ala	Gly	Arg	Arg	Asp	Pro	Pro	Arg	Asn	Gln	Cys	Gly	Gly	Ala	Ile
1				5					10					15	
Met	Pro	Leu	Leu	Asp	Ile	Arg	Asn	Leu	Thr	Ile	Glu	Ile	Lys	Thr	Gly
			20					25					30		
Glu	Gly	Trp	Val	Lys	Ala	Val	Asp	Arg	Ile	Ser	Ile	Thr	Leu	Ala	Glu
			35				40					45			
Gly	Glu	Ile	Arg	Gly	Leu	Val	Gly	Glu	Ser	Gly	Ser	Gly	Lys	Ser	Leu
			50				55				60				
Ile	Ala	Lys	Ala	Ile	Cys	Gly	Val	Ala	Lys	Asp	Asn	Trp	Arg	Val	Thr
65					70					75					80
Ala	Asp	Arg	Met	Arg	Phe	Asp	Asp	Ile	Asp	Leu	Leu	Arg	Leu	Ser	Pro
				85					90					95	
Arg	Glu	Arg	Arg	Lys	Leu	Val	Gly	His	Asn	Val	Ser	Met	Ile	Phe	Gln
				100				105					110		
Glu	Pro	Gln	Ser	Cys	Leu	Asp	Pro	Ser	Glu	Arg	Val	Gly	Lys	Gln	Leu
			115				120					125			
Met	Gln	Asn	Ile	Pro	Gly	Trp	Thr	Tyr	Lys	Gly	Arg	Trp	Trp	Gln	Arg

130		135		140
Phe Gly Trp Arg Lys Arg Arg Ala Ile Glu Leu Leu His Arg Val Gly				
145		150		155
Ile Lys Asp His Lys Asp Ala Met Arg Ser Phe Pro Tyr Glu Leu Thr				
	165		170	
Asp Gly Glu Cys Gln Lys Val Met Ile Ala Ile Ala Leu Ala Asn Gln				
	180		185	
Pro Arg Leu Leu Ile Ala Asp Glu Pro Thr Asn Ala Met Glu Pro Thr				
	195		200	
Thr Gln Ala Gln Ile Phe Arg Leu Leu Thr Arg Leu Asn Gln Asn Asn				
	210		215	
Asn Thr Thr Ile Leu Leu Ile Ser His Asp Leu Gln Met Leu Ser Lys				
225		230		235
Trp Ala Asp Lys Ile Asp Val Met Tyr Cys Gly Gln Thr Val Glu Thr				
	245		250	
Ala Pro Ser Glu Asp Leu Val Thr Thr Pro His His Pro Tyr Thr Gln				
	260		265	
Ala Leu Ile Arg Ala Ile Pro Asp Phe Gly Ser Ala Met Pro His Lys				
	275		280	
Ser Arg Leu Asn Thr Leu Pro Gly Ala Ile Pro Leu Leu Glu Ser Leu				
290		295		300
Pro Ile Gly Cys Arg Leu Gly Pro Arg Cys Pro Tyr Ala Gln Arg Lys				
305		310		315
Cys Ile Glu Thr Pro Arg Leu Thr Gly Pro Lys Asn His Leu Phe Ala				
	325		330	
Cys His Phe Pro Leu Asn Met Glu Arg Glu				
	340		345	

<210> 6517

<211> 587

<212> PRT

<213> Enterobacter cloacae

<400> 6517

Gly His Cys Ser Lys Asn Ile Lys Cys Ala Asp Ile Ile Ser Thr Tyr				
1	5		10	15
Pro Gln Thr Phe Leu Arg Ser Arg Arg Lys Cys Asp Thr Leu Cys Arg				
	20		25	30
Ser Asn Leu Lys Thr Leu Lys Thr Met Arg Leu Val Leu Ser Ser Leu				
	35		40	45
Phe Ala Leu Gly Leu Phe Ser Asn Leu Ala Phe Ala Ala Pro Asp Arg				
	50		55	60
Ala Val Pro Pro Asp Ile Arg Glu Ser Gly Phe Val Tyr Cys Val Ser				
65		70		75
Gly Gln Val Asp Thr Phe Asn Pro Gln Lys Ala Gly Ser Gly Leu Ile				
	85		90	95
Val Asp Thr Leu Ala Ala Gln Leu Tyr Asp Arg Leu Leu Asp Val Asp				
	100		105	110
Pro Tyr Thr Tyr Arg Leu Val Pro Glu Leu Ala Glu Ser Trp Glu Val				
	115		120	125
Leu Asp Asn Gly Ala Thr Tyr Arg Phe Arg Leu Arg Asp Asp Val Ala				
	130		135	140
Phe Gln His Thr Pro Trp Phe Thr Pro Thr Arg Lys Leu Asn Ala Asp				
145		150		155
Asp Val Val Phe Thr Phe Gln Arg Ile Phe Asn Arg Asn His Pro Trp				
	165		170	175
His Asn Val Asn Gly Gly Asn Phe Pro Tyr Phe Asp Ser Leu Gln Phe				
	180		185	190
Ala Asp Ser Val Lys Ser Val Arg Lys Leu Asp Asn Arg Thr Val Glu				
	195		200	205
Phe Arg Leu Thr Arg Pro Asp Ala Ser Phe Leu Trp His Leu Ala Thr				

210	215	220
His Tyr Ala Ser Val Met Ser Ala Glu Tyr Ala Asp Gln Leu Thr Lys		
225	230	235
Lys Asp Arg Gln Glu Arg Leu Asp Arg Glu Pro Val Gly Thr Gly Pro		
	245	250
Phe Gln Leu Ala Glu Tyr Arg Ala Gly Gln Tyr Ile Arg Leu Gln Arg		
	260	265
His Asp Arg Phe Trp Arg Gly Lys Pro Leu Met Pro Gln Val Ile Val		
	275	280
Asp Leu Gly Ser Gly Gly Thr Gly Arg Leu Ser Lys Leu Leu Thr Gly		
	290	295
Glu Cys Asp Val Leu Ala Trp Pro Ala Ala Ser Gln Leu Thr Ile Leu		
305	310	315
Arg Asp Asp Pro Arg Leu Arg Leu Thr Leu Arg Pro Gly Met Asn Ile		
	325	330
Ala Tyr Leu Ala Phe Asn Thr Asp Lys Pro Pro Leu Asn Asn Pro Ala		
	340	345
Val Arg His Ala Leu Ala Leu Ala Ile Asn Asn Gln Arg Leu Met Gln		
	355	360
Ser Ile Tyr Tyr Gly Thr Ala Glu Thr Ala Ala Ser Ile Leu Pro Arg		
	370	375
Ala Ser Trp Ala Tyr Asp Gly Glu Ala Lys Ile Thr Glu Tyr Asn Pro		
385	390	395
Ala Lys Ala Arg Glu Gln Leu Lys Ala Leu Gly Ala Glu Asn Leu Thr		
	405	410
Leu Gln Leu Trp Val Pro Thr Ser Ser Gln Ala Trp Asn Pro Ser Pro		
	420	425
Leu Lys Thr Ala Glu Leu Leu Gln Ala Asp Met Ala Gln Val Gly Val		
	435	440
Lys Val Ile Ile Val Pro Val Glu Gly Arg Phe Gln Glu Ala Arg Leu		
	450	455
Met Asp Met Asn His Asp Leu Thr Leu Ala Gly Trp Ser Thr Asp Ser		
465	470	475
Asn Asp Pro Asp Ser Phe Phe Arg Pro Leu Leu Ser Cys Ala Ala Ile		
	485	490
Asn Ser Gln Thr Asn Tyr Ala His Trp Cys Asn Arg Glu Phe Asp Ala		
	500	505
Val Leu Gln Lys Ala Leu Ala Ser Gln Gln Leu Ala Ser Arg Ile Glu		
	515	520
Ala Tyr Asp Glu Ala Gln Asn Ile Leu Ala Arg Glu Leu Pro Val Leu		
	530	535
Pro Leu Ala Ser Ser Leu Arg Leu Gln Ala Tyr Arg Tyr Asp Ile Lys		
545	550	555
Gly Leu Val Leu Ser Pro Phe Gly Asn Ala Ser Phe Ala Gly Val Thr		
	565	570
Arg Glu Lys Glu Gln Glu Val Lys Lys Pro		
	580	585

<210> 6518

<211> 302

<212> PRT

<213> Enterobacter cloacae

<400> 6518

Ser Ile Arg Asn Gly Met Pro Tyr Asp Asn Val Tyr Ser Glu Lys Arg
1 5 10 15
Thr Pro Gly Ala Leu Arg Thr Val Trp Arg Asn Phe Tyr Gly Asp Thr
20 25 30
Thr Ala Met Ile Gly Phe Tyr Gly Cys Ile Gly Leu Val Leu Leu Cys
35 40 45
Val Leu Gly Ser Trp Phe Ala Pro Tyr Gly Ile Asp Gln Gln Phe Leu

50	55	60
Gly Tyr Gln Leu Leu Pro	Pro Ser Trp Ser Arg Tyr Gly Glu Val Ser	
65	70	75
Phe Phe Leu Gly Thr Asp Asp Leu Gly Arg Asp Val Leu Ser Arg Leu		80
	85	90
Leu Ser Gly Ala Ala Pro Thr Val Gly Gly Ala Phe Val Val Thr Leu		95
	100	105
Ala Ala Ala Ile Cys Gly Leu Ala Leu Gly Ile Phe Ala Gly Ser Thr		110
	115	120
His Gly Leu Arg Ser Ala Val Leu Asn His Ile Leu Asp Thr Leu Leu		125
	130	135
Ser Ile Pro Ser Leu Leu Ala Ile Ile Val Val Ala Phe Ala Gly		140
145	150	155
Pro His Leu Thr His Ala Met Phe Ala Val Trp Leu Ala Ile Leu Pro		160
	165	170
Arg Met Val Arg Ser Val Tyr Ser Leu Val His Asp Glu Leu Glu Lys		175
	180	185
Glu Tyr Val Val Ala Ala Arg Leu Asp Gly Ala Thr Thr Phe Asn Ile		190
	195	200
Leu Trp Phe Ala Val Leu Pro Asn Ile Ala Ala Gly Leu Val Thr Glu		205
	210	215
Ile Thr Arg Ala Leu Ser Met Ala Ile Leu Asp Ile Ala Ala Leu Gly		220
225	230	235
Phe Leu Asp Leu Gly Ala Gln Leu Pro Ser Pro Glu Trp Gly Ala Met		240
	245	250
Leu Gly Asp Ala Leu Glu Leu Ile Tyr Val Ala Pro Trp Thr Val Met		255
	260	265
Leu Pro Gly Ala Ala Ile Met Val Ser Val Leu Leu Val Asn Leu Leu		270
	275	280
Gly Asp Gly Ile Arg Arg Ala Ile Asn Ala Gly Val Gln		285
	290	300

<210> 6519

<211> 275

<212> PRT

<213> Enterobacter cloacae

<400> 6519

Thr Trp Arg Glu Ser Glu Met Val Glu Thr Leu Leu Glu Val Arg Asn	
1	5
Leu Ser Lys Thr Phe Arg Tyr Arg Thr Gly Leu Phe His Arg Gln Thr	10
	20
Val Glu Ala Val Lys Pro Leu Ser Phe Thr Leu Arg Glu Lys Gln Thr	25
	30
Leu Ala Ile Ile Gly Glu Asn Gly Ser Gly Lys Ser Thr Leu Ala Lys	35
	40
Met Leu Ala Gly Met Val Glu Pro Ser Gly Gly Glu Ile Leu Ile Asp	45
65	50
Asp His Pro Leu Glu Phe Gly Asp Tyr Ser Phe Arg Ser Gln Arg Ile	55
	60
Arg Met Ile Phe Gln Asp Pro Ser Thr Ser Leu Asn Pro Arg Gln Arg	65
	70
Ile Ser Gln Ile Leu Asp Phe Pro Leu Arg Leu Asn Thr Asp Leu Glu	75
	80
Pro Glu Ala Arg Arg Lys Arg Ile Val Glu Thr Leu Arg Leu Val Gly	85
	90
Leu Leu Pro Asp His Val Ser Tyr Tyr Pro His Met Leu Ala Pro Gly	95
145	100
Gln Lys Gln Arg Leu Gly Leu Ala Arg Ala Leu Ile Leu Arg Pro Lys	105
	110
Val Ile Ile Ala Asp Glu Ala Leu Ala Ser Leu Asp Met Ser Met Arg	115
	120
	125
	130
	135
	140
	145
	150
	155
	160
	165
	170
	175

180 185 190
 Ser Gln Leu Ile Asn Leu Met Leu Glu Leu Gln Glu Lys Gln Gly Ile
 195 200 205
 Ser Tyr Ile Tyr Val Thr Gln His Leu Gly Met Met Lys His Ile Ser
 210 215 220
 Asp Gln Val Leu Val Met His Gln Gly Glu Val Val Glu Arg Gly Ser
 225 230 235 240
 Thr Ala Asp Val Leu Ala Ser Pro Leu His Asp Leu Thr Lys Arg Leu
 245 250 255
 Ile Ala Gly His Phe Gly Glu Ala Leu Thr Ala Asp Ala Trp Arg Lys
 260 265 270
 Asp Arg
 275

<210> 6520

<211> 145

<212> PRT

<213> Enterobacter cloacae

<400> 6520

Ala Arg Leu Ser Ser Pro Phe Asn Pro Ala Arg Leu Asn Pro Val Ser
 1 5 10 15
 Gly Lys Val Ser Pro His Asn Gly Ile Asp Tyr Ser Met Pro Met Asn
 20 25 30
 Thr Lys Ile Val Ser Val Ile Asp Gly Lys Ile Thr Arg Ala Glu Tyr
 35 40 45
 Asn Ser Thr Met Gly Tyr Phe Val Glu Val Thr Gly Lys Ala Gly Val
 50 55 60
 Lys Thr Arg Tyr Leu His Leu Asn Lys Ile Leu Val Thr Lys Gly Ala
 65 70 75 80
 Arg Val Thr Arg Gly Gly Ala Ile Ala Leu Ser Gly Asn Ser Gly Arg
 85 90 95
 Ser Ser Gly Pro His Leu His Tyr Glu Leu Val Ile Asn Asn Asn Pro
 100 105 110
 Val Asn Ser Leu Ala Phe Arg Ala Ala Ala Pro Ala Asp Asn Lys Leu
 115 120 125
 Glu Gln His Ala Phe Ala His Ala Arg Asp Tyr Glu Arg Tyr Leu Asp
 130 135 140

145

<210> 6521

<211> 447

<212> PRT

<213> Enterobacter cloacae

<400> 6521

Pro Ser Gly Ala Tyr Ala Arg Cys Phe Asp Phe Leu Ala Glu Asn Cys
 1 5 10 15
 Met Ala Ser Leu Lys Ile Lys Tyr Ala Ala Ile Ile Ile Ser Ser Leu
 20 25 30
 Ile Ala Gly Gly Leu Ile Ser Val Thr Ala Trp Gln Tyr Val Asn Ser
 35 40 45
 Ala Gln Lys Thr Glu Lys Thr Glu Gln Lys Ala Pro Glu Arg Lys Val
 50 55 60
 Leu Phe Trp Tyr Asp Pro Met Lys Pro Asp Thr Lys Phe Asp Lys Pro
 65 70 75 80
 Gly Lys Ser Pro Phe Met Asp Met Asp Leu Val Pro Lys Tyr Ala Asp
 85 90 95
 Asp Ser Gly Asp Lys Ser Ser Gly Glu Ile Arg Ile Asp Pro Thr Gln
 100 105 110

Val	Gln	Asn	Leu	Gly	Leu	Lys	Thr	Gln	Lys	Val	Thr	Arg	Gly	Met	Leu
		115					120					125			
Asn	Tyr	Ser	Gln	Thr	Ile	Pro	Ala	Asn	Val	Ser	Tyr	Asn	Glu	Tyr	Gln
	130					135					140				
Phe	Val	Ile	Val	Gln	Ala	Arg	Ser	Asp	Gly	Phe	Val	Glu	Lys	Val	Tyr
145				150					155						160
Pro	Met	Thr	Ile	Gly	Asp	His	Val	Lys	Lys	Gly	Thr	Pro	Leu	Ile	Asp
				165					170					175	
Ile	Thr	Ile	Pro	Asp	Trp	Val	Glu	Ala	Gln	Ser	Glu	Phe	Leu	Leu	Leu
			180				185						190		
Ser	Ser	Thr	Gly	Gly	Thr	Ser	Thr	Gln	Ile	Lys	Gly	Val	Leu	Glu	Arg
		195					200					205			
Leu	Arg	Leu	Ala	Gly	Met	Pro	Glu	Glu	Asp	Ile	Gln	Arg	Leu	Arg	Ser
		210				215					220				
Thr	Arg	Ser	Ile	Gln	Thr	Arg	Phe	Thr	Ile	Lys	Ala	Pro	Ile	Asp	Gly
225				230						235					240
Val	Ile	Thr	Ala	Phe	Asp	Leu	Arg	Thr	Gly	Met	Asn	Ile	Ser	Lys	Asp
				245					250					255	
Lys	Val	Val	Ala	Gln	Ile	Gln	Gly	Met	Asp	Pro	Val	Trp	Ile	Ser	Ala
			260				265						270		
Ala	Val	Pro	Glu	Ser	Ile	Ala	Tyr	Leu	Leu	Lys	Asp	Thr	Ser	Gln	Phe
		275					280					285			
Glu	Ile	Ser	Val	Pro	Ala	Tyr	Pro	Asp	Lys	Thr	Phe	His	Val	Glu	Lys
		290				295					300				
Trp	Asn	Ile	Leu	Pro	Ser	Val	Asp	Gln	Thr	Thr	Arg	Thr	Leu	Gln	Val
305				310						315					320
Arg	Leu	Gln	Val	Ser	Asn	Lys	Asp	Glu	Phe	Leu	Lys	Pro	Gly	Met	Asn
				325					330					335	
Ala	Tyr	Leu	Lys	Leu	Asn	Thr	Arg	Ser	Gln	Glu	Met	Leu	Leu	Ile	Pro
			340					345					350		
Ser	Gln	Ala	Val	Ile	Asp	Thr	Gly	Lys	Glu	Gln	Arg	Val	Ile	Thr	Val
		355					360					365			
Asp	Asp	Glu	Gly	Lys	Phe	Val	Pro	Lys	Gln	Ile	His	Val	Leu	His	Glu
		370				375					380				
Ser	Gln	Gln	Gln	Ser	Gly	Ile	Gly	Ser	Gly	Leu	Asn	Glu	Gly	Asp	Thr
385				390						395					400
Val	Val	Val	Ser	Gly	Leu	Phe	Leu	Ile	Asp	Ser	Glu	Ala	Asn	Ile	Thr
				405					410					415	
Gly	Ala	Leu	Glu	Arg	Met	Arg	His	Pro	Glu	Lys	Thr	Glu	Ser	Ser	Met
			420					425					430		
Pro	Ala	Met	Ser	Asp	Gln	Pro	Val	Asn	Met	His	Ser	Gly	His		
		435					440					445			

<210> 6522

<211> 832

<212> PRT

<213> Enterobacter cloacae

<400> 6522

His	Thr	Leu	Lys	Thr	Glu	Asp	Ala	Ser	Val	Cys	Ile	Arg	Arg	Val	Thr
1				5					10					15	
Val	Lys	Asn	Asp	Asn	Ala	Val	Gln	His	Asn	Asn	Gln	Thr	Ala	Ser	Glu
		20						25					30		
Gln	Thr	Leu	Ser	Pro	Asp	Glu	Gly	His	Val	Leu	His	Lys	Val	Arg	Asp
		35					40					45			
Pro	Val	Cys	Gly	Met	Ala	Ile	Leu	Pro	Asp	Arg	Ala	His	Ser	Ser	Ile
		50				55					60				
Arg	Tyr	Gln	Asp	His	Gln	Leu	Tyr	Phe	Cys	Ser	Ala	Ser	Cys	Glu	Ser
65				70					75						80
Lys	Phe	Lys	Ala	His	Pro	Asp	Arg	Asn	Leu	Thr	Glu	Asp	Ala	Ser	Glu
				85					90					95	

His	Ser	His	His	His	His	His	Asp	His	His	Glu	Val	Ser	Pro	Asp	Gln
			100					105					110		
Ile	Lys	Gln	Pro	His	His	Gln	Ala	Glu	Lys	Glu	Asn	Ser	Glu	Gly	Val
		115					120					125			
Trp	Thr	Cys	Pro	Met	His	Pro	Glu	Ile	Arg	Arg	Ser	Gly	Pro	Gly	Ser
	130					135					140				
Cys	Pro	Val	Cys	Gly	Met	Ala	Leu	Glu	Pro	Leu	Val	Ala	Thr	Ala	Ser
145				150						155					160
Thr	Gly	Pro	Ser	Asp	Glu	Leu	His	Asp	Met	Thr	Arg	Arg	Phe	Trp	Leu
				165				170						175	
Gly	Leu	Leu	Leu	Ala	Phe	Pro	Val	Leu	Val	Leu	Glu	Met	Gly	Ser	His
			180					185					190		
Leu	Phe	Pro	Glu	Leu	Arg	Asn	Thr	Val	Pro	Pro	Gln	Tyr	Asn	Thr	Trp
		195					200					205			
Leu	Gln	Leu	Leu	Leu	Ala	Ser	Pro	Val	Val	Leu	Trp	Cys	Gly	Trp	Pro
	210				215						220				
Phe	Phe	Ala	Arg	Ala	Gly	Met	Ser	Leu	Arg	Asn	Arg	Ser	Leu	Asn	Met
225				230					235						240
Phe	Thr	Leu	Val	Ala	Met	Gly	Thr	Gly	Val	Ala	Trp	Val	Tyr	Ser	Val
				245					250					255	
Ile	Ala	Thr	Val	Phe	Pro	Ser	Trp	Phe	Pro	Ala	Ser	Phe	Arg	Asn	Met
			260					265					270		
Asp	Gly	Leu	Val	Ala	Val	Tyr	Phe	Glu	Ala	Ala	Ala	Val	Ile	Thr	Val
		275					280					285			
Leu	Val	Leu	Leu	Gly	Gln	Val	Leu	Glu	Leu	Arg	Ala	Arg	Glu	Gln	Thr
	290				295						300				
Ser	Gly	Ala	Ile	Thr	Ala	Leu	Leu	Asn	Leu	Ala	Pro	Lys	Thr	Ala	Arg
305					310				315						320
Arg	Leu	Asp	His	Asp	Gly	His	Glu	Thr	Asp	Ile	Asn	Ala	Glu	Asp	Val
				325					330					335	
Leu	Pro	Gly	Asp	Lys	Leu	Arg	Ile	Arg	Pro	Gly	Glu	Ser	Ile	Pro	Val
			340					345					350		
Asp	Gly	Ile	Val	Ile	Glu	Gly	Lys	Thr	Thr	Val	Asp	Glu	Ser	Met	Val
	355						360					365			
Thr	Gly	Glu	Ser	Met	Pro	Val	Thr	Lys	Thr	Glu	Gly	Asp	Pro	Val	Ile
	370					375						380			
Gly	Gly	Thr	Ile	Asn	Gln	Thr	Gly	Ser	Leu	Ile	Ile	Arg	Ala	Glu	Lys
385					390					395					400
Val	Gly	Asp	Glu	Thr	Met	Leu	Ser	Arg	Ile	Val	Gln	Met	Val	Ala	Asp
				405					410					415	
Ala	Gln	Arg	Ser	Arg	Ala	Pro	Ile	Gln	Arg	Met	Ala	Asp	Ser	Val	Ser
			420					425					430		
Gly	Trp	Phe	Val	Pro	Leu	Val	Ile	Leu	Ile	Ala	Val	Val	Ala	Phe	Val
		435					440					445			
Ile	Trp	Ser	Val	Trp	Gly	Pro	Glu	Pro	Arg	Met	Ala	His	Gly	Leu	Ile
	450				455						460				
Ala	Ala	Val	Ser	Val	Leu	Ile	Ile	Ala	Cys	Pro	Cys	Ala	Leu	Gly	Leu
465					470					475					480
Ala	Thr	Pro	Met	Ser	Ile	Met	Val	Gly	Val	Gly	Lys	Gly	Ala	Gln	Ala
				485					490					495	
Gly	Val	Leu	Ile	Arg	Asn	Ala	Glu	Ala	Leu	Glu	Arg	Leu	Glu	Lys	Val
			500				505						510		
Asp	Thr	Leu	Val	Val	Asp	Lys	Thr	Gly	Thr	Leu	Thr	Glu	Gly	Ser	Pro
		515					520					525			
Thr	Val	Thr	Gly	Ile	Ile	Ser	Leu	Asn	Pro	Gly	Gly	Glu	Thr	Ser	Leu
	530					535						540			
Leu	Arg	Val	Thr	Ala	Ala	Val	Glu	Lys	Gly	Ser	Gln	His	Pro	Leu	Gly
545					550					555					560
Met	Ala	Val	Val	Lys	Ala	Ala	Gln	Glu	Lys	Gly	Ile	Ala	Ile	Pro	Ala
				565					570					575	
Val	Thr	His	Phe	Asp	Ala	Pro	Ser	Gly	Lys	Gly	Val	Ser	Gly	Asp	Val

			580					585				590			
Glu	Gly	Gln	Arg	Val	Val	Ile	Gly	Asn	Glu	Leu	Ala	Met	Gln	Glu	Asn
		595					600					605			
Ser	Ile	Val	Ile	Asp	Asn	Gln	Lys	Ala	Val	Ala	Asp	Thr	Leu	Arg	Met
	610					615					620				
Glu	Gly	Ala	Thr	Val	Ile	Tyr	Val	Ala	Thr	Asp	Gly	Asp	Leu	Ala	Gly
625					630					635					640
Leu	Ile	Ala	Ile	Ser	Asp	Pro	Val	Lys	Thr	Thr	Thr	Pro	Asp	Ala	Leu
				645					650					655	
Lys	Ala	Leu	Arg	Gln	Ala	Gly	Ile	Arg	Ile	Val	Met	Leu	Thr	Gly	Asp
			660					665					670		
Asn	Gln	Leu	Thr	Ala	Glu	Ala	Val	Ala	Arg	Lys	Leu	Gly	Ile	Asp	Glu
		675					680					685			
Val	Glu	Ala	Gly	Ile	Leu	Pro	Asp	Gly	Lys	Lys	Ala	Val	Ile	Thr	Arg
	690				695						700				
Leu	Lys	Glu	Ser	Gly	His	Val	Val	Ala	Met	Ala	Gly	Asp	Gly	Val	Asn
705				710						715					720
Asp	Ala	Pro	Ala	Leu	Ala	Ala	Ala	Asp	Val	Gly	Ile	Ala	Met	Gly	Thr
			725					730						735	
Gly	Thr	Asp	Val	Ala	Ile	Glu	Ser	Ala	Gly	Val	Thr	Leu	Leu	Lys	Gly
			740					745					750		
Asp	Leu	Met	Ile	Leu	Asn	Arg	Ala	Arg	His	Leu	Ser	Glu	Ile	Thr	Met
		755					760					765			
Lys	Asn	Ile	Arg	Gln	Asn	Leu	Phe	Phe	Ala	Phe	Ile	Tyr	Asn	Ala	Leu
	770				775						780				
Gly	Val	Pro	Val	Ala	Ala	Gly	Leu	Leu	Tyr	Pro	Val	Tyr	Gly	Ile	Leu
785				790						795					800
Leu	Ser	Pro	Val	Ile	Ala	Ala	Ala	Ala	Met	Ala	Leu	Ser	Ser	Val	Ser
				805					810					815	
Val	Ile	Val	Asn	Ala	Leu	Arg	Leu	Lys	Ser	Val	Arg	Leu	Gly	Lys	
			820					825					830		

<210> 6523

<211> 191

<212> PRT

<213> Enterobacter cloacae

<400> 6523

Gly	Ser	Val	Phe	Gly	Ser	Gly	Pro	Phe	His	Pro	Val	Val	Lys	Arg	Arg
1			5					10					15		
Gly	Ser	Gln	Leu	Lys	Ala	Ala	Asp	Ala	Asn	Ile	Gly	Ala	Pro	Arg	Ala
		20					25					30			
Ala	Phe	Phe	Pro	Ser	Ile	Thr	Leu	Thr	Ser	Gly	Leu	Ser	Ala	Ser	Ser
	35					40					45				
Thr	Glu	Leu	Ser	Ser	Leu	Phe	Thr	Ser	Gly	Ser	Gly	Met	Trp	Asn	Phe
	50				55					60					
Ile	Pro	Lys	Ile	Glu	Ile	Pro	Ile	Phe	Asn	Ala	Gly	Arg	Asn	Lys	Ala
65				70					75					80	
Asn	Leu	Lys	Leu	Ala	Glu	Ile	Arg	Gln	Gln	Gln	Ser	Val	Val	Asn	Tyr
			85					90						95	
Glu	Gln	Lys	Ile	Gln	Ser	Ala	Phe	Lys	Asp	Val	Ser	Asp	Thr	Leu	Ala
			100				105						110		
Leu	Arg	Asp	Ser	Leu	Ser	Gln	Gln	Leu	Glu	Ser	Gln	Gln	Arg	Tyr	Leu
		115				120					125				
Asp	Ser	Leu	Gln	Ile	Thr	Leu	Gln	Arg	Ala	Arg	Gly	Leu	Tyr	Ala	Ser
	130				135						140				
Gly	Ala	Val	Ser	Tyr	Ile	Glu	Val	Leu	Asp	Ala	Glu	Arg	Ser	Leu	Phe
145				150					155						160
Ala	Thr	Gln	Gln	Thr	Ile	Leu	Asp	Leu	Thr	Tyr	Ser	Arg	Gln	Val	Asn
			165					170						175	
Glu	Ile	Asn	Leu	Phe	Thr	Ala	Leu	Gly	Gly	Gly	Trp	Val	Glu		

180

185

190

<210> 6524

<211> 127

<212> PRT

<213> Enterobacter cloacae

<400> 6524

Ile	Tyr	Leu	Ile	Asn	Gln	Glu	Ile	Lys	Met	Arg	Asn	Ser	Leu	Lys	Ala
1				5					10					15	
Val	Leu	Phe	Gly	Ala	Phe	Ser	Val	Met	Phe	Ser	Ala	Gly	Leu	His	Ala
			20					25					30		
Glu	Thr	His	Gln	His	Gly	Asp	Met	Asn	Thr	Ala	Ser	Asp	Ala	Ser	Val
		35					40					45			
Gln	Gln	Val	Ile	Lys	Gly	Thr	Gly	Val	Val	Lys	Asp	Ile	Asp	Met	Asn
		50				55					60				
Thr	Lys	Lys	Ile	Thr	Ile	Ser	His	Glu	Ala	Ile	Pro	Ala	Val	Gly	Trp
65					70					75				80	
Pro	Ala	Met	Thr	Met	Arg	Phe	Thr	Phe	Val	Asn	Ala	Asp	Asp	Ala	Ile
				85					90					95	
Asn	Ala	Leu	Lys	Thr	Gly	Asn	His	Val	Asp	Phe	Ser	Phe	Ile	Gln	Gln
			100					105					110		
Gly	Asn	Ile	Ser	Leu	Leu	Lys	Ser	Ile	Asn	Val	Thr	Gln	Ser		
		115					120					125			

<210> 6525

<211> 1059

<212> PRT

<213> Enterobacter cloacae

<400> 6525

Ile	Cys	Ile	Gln	Gly	Thr	Glu	Glu	Thr	Thr	Met	Ile	Glu	Trp	Ile	Ile
1				5					10					15	
Arg	Arg	Ser	Val	Ala	Asn	Arg	Phe	Leu	Val	Met	Met	Gly	Ala	Leu	Phe
			20					25					30		
Leu	Ser	Ile	Trp	Gly	Thr	Trp	Thr	Ile	Ile	Asn	Thr	Pro	Val	Asp	Ala
		35					40					45			
Leu	Pro	Asp	Leu	Ser	Asp	Val	Gln	Val	Ile	Ile	Lys	Thr	Ser	Tyr	Pro
		50				55					60				
Gly	Gln	Ala	Pro	Gln	Ile	Val	Glu	Asn	Gln	Val	Thr	Tyr	Pro	Leu	Thr
65					70					75				80	
Thr	Thr	Met	Leu	Ser	Val	Pro	Gly	Ala	Lys	Thr	Val	Arg	Gly	Phe	Ser
				85					90					95	
Gln	Phe	Gly	Asp	Ser	Tyr	Val	Tyr	Val	Ile	Phe	Glu	Asp	Gly	Thr	Asp
			100					105					110		
Leu	Tyr	Trp	Ala	Arg	Ser	Arg	Val	Leu	Glu	Tyr	Leu	Asn	Gln	Val	Gln
		115					120					125			
Gly	Lys	Leu	Pro	Ala	Gly	Val	Ser	Ser	Glu	Ile	Gly	Pro	Asp	Ala	Thr
		130				135					140				
Gly	Val	Gly	Trp	Ile	Phe	Glu	Tyr	Ala	Leu	Val	Asp	Arg	Ser	Gly	Lys
145					150					155				160	
His	Asp	Leu	Ser	Glu	Leu	Arg	Ser	Leu	Gln	Asp	Trp	Phe	Leu	Lys	Phe
				165					170					175	
Glu	Leu	Lys	Thr	Ile	Pro	Asn	Val	Ala	Glu	Val	Ala	Ser	Val	Gly	Gly
			180					185					190		
Val	Val	Lys	Gln	Tyr	Gln	Ile	Gln	Val	Asn	Pro	Val	Lys	Leu	Ser	Gln
		195					200					205			
Tyr	Gly	Ile	Ser	Leu	Pro	Glu	Val	Lys	Gln	Ala	Leu	Glu	Ser	Ser	Asn
		210				215					220				
Gln	Glu	Ala	Gly	Gly	Ser	Ser	Val	Glu	Met	Ala	Glu	Ala	Glu	Tyr	Met
225						230				235					240

Val	Arg	Ala	Ser	Gly	Tyr	Leu	Gln	Ser	Ile	Asp	Asp	Phe	Asn	Asn	Ile
				245					250					255	
Val	Leu	Lys	Thr	Gly	Glu	Asn	Gly	Val	Pro	Val	Tyr	Leu	Arg	Asp	Val
			260					265						270	
Ala	Arg	Val	Gln	Thr	Gly	Pro	Glu	Met	Arg	Arg	Gly	Ile	Ala	Glu	Leu
		275					280					285			
Asn	Gly	Gln	Gly	Glu	Val	Ala	Gly	Gly	Val	Val	Ile	Leu	Arg	Ser	Gly
	290					295					300				
Lys	Asn	Ala	Arg	Asp	Val	Ile	Thr	Ala	Val	Arg	Asp	Lys	Leu	Glu	Thr
305				310						315					320
Leu	Lys	Ala	Ser	Leu	Pro	Glu	Gly	Val	Glu	Ile	Val	Thr	Thr	Tyr	Asp
			325						330					335	
Arg	Ser	Gln	Leu	Ile	Asp	Arg	Ala	Ile	Asp	Asn	Leu	Ser	Ser	Lys	Leu
			340					345						350	
Leu	Glu	Glu	Phe	Ile	Val	Val	Ala	Ile	Val	Cys	Ala	Leu	Phe	Leu	Trp
		355					360					365			
His	Val	Arg	Ser	Ala	Leu	Val	Ala	Ile	Ile	Ser	Leu	Pro	Leu	Gly	Leu
	370					375					380				
Cys	Ile	Ala	Phe	Ile	Val	Met	His	Phe	Gln	Gly	Leu	Asn	Ala	Asn	Ile
385					390					395					400
Met	Ser	Leu	Gly	Gly	Ile	Ala	Ile	Ala	Val	Gly	Ala	Met	Val	Asp	Ala
			405						410					415	
Ala	Ile	Val	Met	Ile	Glu	Asn	Ala	His	Lys	Arg	Leu	Glu	Glu	Trp	Asp
			420					425					430		
His	Gln	His	Pro	Gly	Glu	Gln	Ile	Asp	Asn	Ala	Thr	Arg	Trp	Lys	Val
	435						440					445			
Ile	Thr	Asp	Ala	Ser	Val	Glu	Val	Gly	Pro	Ala	Leu	Phe	Ile	Ser	Leu
	450					455					460				
Leu	Ile	Ile	Thr	Leu	Ser	Phe	Ile	Pro	Ile	Phe	Thr	Leu	Glu	Gly	Gln
465				470						475					480
Glu	Gly	Arg	Leu	Phe	Gly	Pro	Leu	Ala	Phe	Thr	Lys	Thr	Tyr	Ser	Met
			485						490					495	
Ala	Gly	Ala	Ala	Ala	Leu	Ala	Ile	Ile	Val	Ile	Pro	Ile	Leu	Met	Gly
			500					505					510		
Phe	Trp	Ile	Arg	Gly	Lys	Ile	Pro	Ala	Glu	Thr	Ser	Asn	Pro	Leu	Asn
	515						520					525			
Arg	Val	Leu	Ile	Lys	Ala	Tyr	His	Pro	Leu	Leu	Leu	Arg	Val	Leu	His
	530				535						540				
Trp	Pro	Lys	Thr	Thr	Leu	Val	Ala	Ala	Leu	Ser	Ile	Phe	Thr	Val	
545					550				555						560
Ile	Trp	Pro	Leu	Ser	Gln	Val	Gly	Gly	Glu	Phe	Leu	Pro	Lys	Ile	Asn
			565						570					575	
Glu	Gly	Asp	Leu	Leu	Tyr	Met	Pro	Ser	Thr	Leu	Pro	Gly	Val	Ser	Pro
			580					585					590		
Ala	Glu	Ala	Ala	Ala	Leu	Leu	Gln	Thr	Thr	Asp	Lys	Leu	Ile	Lys	Ser
	595						600					605			
Val	Pro	Glu	Val	Ala	Ser	Val	Phe	Gly	Lys	Thr	Gly	Lys	Ala	Glu	Thr
	610					615					620				
Ala	Thr	Asp	Ser	Ala	Pro	Leu	Glu	Met	Val	Glu	Thr	Thr	Ile	Gln	Leu
625					630					635					640
Lys	Pro	Glu	Asp	Gln	Trp	Arg	Pro	Gly	Met	Thr	Ile	Asp	Lys	Ile	Ile
			645						650					655	
Glu	Glu	Leu	Asp	Arg	Thr	Val	Arg	Leu	Pro	Gly	Leu	Ala	Asn	Leu	Trp
			660					665					670		
Val	Pro	Pro	Ile	Arg	Asn	Arg	Ile	Asp	Met	Leu	Ser	Thr	Gly	Ile	Lys
	675						680					685			
Ser	Pro	Ile	Gly	Ile	Lys	Val	Ser	Gly	Thr	Val	Leu	Ser	Asp	Ile	Asp
	690					695					700				
Ala	Thr	Ala	Gln	Ser	Ile	Glu	Ala	Val	Ala	Lys	Thr	Val	Pro	Gly	Val
705					710					715					720
Val	Ser	Ala	Leu	Ala	Glu	Arg	Leu	Glu	Gly	Gly	Arg	Tyr	Ile	Asp	Val

				725					730					735			
Asp	Ile	Asn	Arg	Glu	Lys	Ala	Ser	Arg	Tyr	Gly	Met	Thr	Val	Gly	Asp		
			740					745					750				
Val	Gln	Leu	Phe	Ile	Ser	Ser	Ala	Ile	Gly	Gly	Ala	Thr	Val	Gly	Glu		
		755					760					765					
Thr	Val	Glu	Gly	Val	Ala	Arg	Tyr	Pro	Ile	Asn	Ile	Arg	Tyr	Pro	Gln		
	770					775					780						
Asp	Tyr	Arg	Asn	Ser	Pro	Gln	Ala	Leu	Lys	Gln	Met	Pro	Ile	Leu	Thr		
785					790					795					800		
Pro	Met	Lys	Gln	Gln	Ile	Thr	Leu	Gly	Asp	Val	Ala	Asp	Ile	Lys	Val		
			805					810						815			
Val	Ser	Gly	Pro	Thr	Met	Leu	Lys	Thr	Glu	Asn	Ala	Arg	Pro	Ala	Ser		
			820					825					830				
Trp	Ile	Tyr	Ile	Asp	Ala	Arg	Gly	Arg	Asp	Met	Val	Ser	Val	Val	Asn		
	835						840					845					
Asp	Ile	Lys	Thr	Ala	Ile	Ser	Gln	Lys	Val	Lys	Leu	Arg	Pro	Gly	Thr		
	850					855					860						
Ser	Val	Ser	Phe	Ser	Gly	Gln	Phe	Glu	Leu	Leu	Glu	His	Ala	Asn	Lys		
865					870					875					880		
Lys	Leu	Lys	Leu	Met	Val	Pro	Met	Thr	Val	Met	Ile	Ile	Phe	Ile	Leu		
				885					890					895			
Leu	Tyr	Leu	Ala	Phe	Arg	Arg	Val	Asp	Glu	Ala	Leu	Leu	Ile	Leu	Met		
			900					905					910				
Ser	Leu	Pro	Phe	Ala	Leu	Val	Gly	Gly	Ile	Trp	Phe	Leu	Tyr	Trp	Gln		
	915						920					925					
Gly	Phe	His	Met	Ser	Val	Ala	Thr	Gly	Thr	Gly	Phe	Ile	Ala	Leu	Ala		
	930					935					940						
Gly	Val	Ala	Ala	Glu	Phe	Gly	Val	Val	Met	Leu	Met	Tyr	Leu	Arg	His		
945					950					955					960		
Ala	Ile	Glu	Ala	His	Pro	Glu	Leu	Ser	Arg	Lys	Glu	Thr	Phe	Thr	Pro		
				965					970					975			
Glu	Gly	Leu	Asp	Glu	Ala	Leu	Tyr	His	Gly	Ala	Val	Leu	Arg	Val	Arg		
			980					985					990				
Pro	Lys	Ala	Met	Thr	Val	Ala	Val	Ile	Ile	Ala	Gly	Leu	Leu	Pro	Ile		
	995						1000					1005					
Leu	Trp	Gly	Thr	Gly	Ala	Gly	Ser	Glu	Val	Met	Ser	Arg	Ile	Ala	Ala		
	1010					1015					1020						
Pro	Met	Ile	Gly	Gly	Met	Ile	Thr	Ala	Pro	Leu	Ser	Leu	Phe	Ile			
1025					1030					1035				1040			
Ile	Pro	Ala	Ala	Tyr	Lys	Leu	Ile	Trp	Leu	Arg	Arg	His	Lys	Lys	Ser		
				1045					1050					1055			

Val Ser

<210> 6526

<211> 134

<212> PRT

<213> Enterobacter cloacae

<400> 6526

Leu	Pro	Pro	Leu	Arg	Gly	Leu	Ala	Thr	Arg	Gly	Glu	Asp	Asp	Asp	Gly		
1				5				10						15			
Ala	Lys	Cys	Gly	Arg	Cys	Gly	His	Glu	Leu	Phe	Asp	Gly	Asp	Val	Ile		
			20					25					30				
Asn	Ala	Thr	Gly	Ala	Thr	Leu	Asp	Lys	Leu	Leu	Lys	Asp	Asp	Leu	Pro		
		35					40					45					
Val	Val	Val	Asp	Phe	Trp	Ala	Pro	Trp	Cys	Gly	Pro	Cys	Arg	Asn	Phe		
	50					55					60						
Ala	Pro	Ile	Phe	Glu	Asp	Val	Ala	Glu	Glu	Arg	Ser	Gly	Lys	Met	Arg		
65					70					75					80		
Phe	Val	Lys	Val	Asn	Thr	Glu	Ala	Glu	Arg	Glu	Leu	Ser	Ala	Arg	Phe		

				85					90					95			
Arg	Ile	Arg	Ser	Ile	Pro	Thr	Ile	Met	Ile	Phe	Lys	Asn	Gly	Glu	Val		
			100					105					110				
Ile	Asp	Met	Leu	Asn	Gly	Ala	Val	Pro	Lys	Ala	Pro	Phe	Asp	Ser	Trp		
		115					120					125					
Leu	Asn	Glu	Ser	Leu													
	130																

<210> 6527

<211> 905

<212> PRT

<213> Enterobacter cloacae

<400> 6527

Gly	Arg	Lys	Arg	Leu	Lys	Ser	Ser	Gly	Arg	Leu	His	Ser	Gln	Glu	Ala		
1				5				10					15				
Cys	Met	Ser	Gln	Arg	Gly	Leu	Glu	Ala	Leu	Leu	Arg	Pro	Lys	Ser	Ile		
			20					25				30					
Ala	Val	Ile	Gly	Ala	Ser	Met	Lys	Pro	Asp	Arg	Ala	Gly	Tyr	Leu	Met		
		35					40					45					
Met	Arg	Asn	Leu	Leu	Ala	Gly	Gly	Phe	Asn	Gly	Pro	Val	Met	Pro	Val		
	50					55					60						
Thr	Pro	Ala	Tyr	Lys	Ala	Val	Gln	Gly	Val	Leu	Ala	Trp	Pro	Asp	Val		
65				70						75					80		
Gln	Ser	Leu	Pro	Phe	Val	Pro	Asp	Leu	Ala	Val	Leu	Cys	Thr	His	Ala		
				85				90						95			
Lys	Arg	Asn	Leu	Glu	Leu	Leu	Glu	Ser	Leu	Gly	Gln	Lys	Gly	Cys	Lys		
			100					105					110				
Thr	Cys	Ile	Ile	Leu	Ser	Ser	Pro	Glu	Gln	Gln	Pro	Glu	Leu	Leu			
		115					120					125					
Ala	Cys	Ala	Ser	Arg	Tyr	Gln	Met	Arg	Ile	Leu	Gly	Pro	Asn	Ser	Leu		
		130				135					140						
Gly	Leu	Leu	Ala	Pro	Trp	Gln	Gly	Leu	Asn	Ala	Ser	Phe	Ser	Pro	Val		
145					150					155					160		
Pro	Ile	Arg	Lys	Gly	Lys	Leu	Ala	Phe	Ile	Ser	Gln	Ser	Ala	Ala	Val		
			165					170						175			
Ser	Asn	Thr	Ile	Leu	Asp	Trp	Ala	Gln	Gln	Arg	Glu	Met	Gly	Phe	Ser		
			180					185					190				
Tyr	Phe	Ile	Ala	Leu	Gly	Asp	Ser	Leu	Asp	Ile	Asp	Val	Asp	Glu	Leu		
		195					200					205					
Leu	Asp	Phe	Leu	Ala	Arg	Asp	Ser	Lys	Thr	Ser	Ala	Ile	Leu	Leu	Tyr		
	210					215					220						
Leu	Glu	His	Leu	Ser	Asp	Ala	Arg	Arg	Phe	Val	Ser	Ala	Ser	Arg	Ser		
225					230					235					240		
Ala	Ser	Arg	Asn	Lys	Pro	Ile	Leu	Val	Ile	Lys	Ser	Gly	Arg	Ser	Pro		
			245						250					255			
Ala	Ala	Gln	Arg	Leu	Leu	His	Ser	Arg	Ser	Gly	Met	Asp	Pro	Ala	Trp		
			260					265					270				
Asp	Ala	Ala	Ile	Gln	Arg	Ala	Gly	Leu	Leu	Arg	Val	Gln	Asp	Thr	His		
		275					280					285					
Glu	Leu	Phe	Ser	Ala	Val	Glu	Thr	Leu	Ser	His	Met	Arg	Pro	Leu	Arg		
	290					295					300						
Gly	Glu	Lys	Leu	Met	Ile	Val	Ser	Asn	Gly	Ala	Ala	Pro	Ala	Ala	Leu		
305					310					315					320		
Ala	Leu	Asp	Glu	Leu	Trp	Leu	Arg	Asn	Gly	Lys	Leu	Ala	Thr	Leu	Gly		
			325						330					335			
Glu	Glu	Thr	Leu	Gln	Arg	Leu	Arg	Asp	Ala	Leu	Pro	Gly	Ser	Val	Val		
			340					345					350				
Pro	Asp	Asn	Pro	Leu	Asp	Leu	Arg	Asp	Asp	Ala	Ser	Ser	Asp	Arg	Tyr		
		355					360					365					
Ile	Lys	Ala	Ile	Thr	Ile	Leu	Leu	Asp	Ser	Gln	Asp	Phe	Asp	Ala	Leu		

370	375	380
Met Ile Ile His Ser Pro	Ser Ala Val Ala Pro	Gly Ser Glu Ser Ala
385	390	395
Arg Ala Leu Ile Glu Ala Val Arg Asn His	Pro Arg Gly Lys Tyr Val	400
	405	410
Thr Leu Leu Thr Asn Trp Cys Gly Glu Phe Ser Ser	Gln Glu Ala Arg	415
	420	425
Arg Leu Phe Ser Glu Ala Gly Leu Pro Thr Tyr Arg Thr	Pro Glu Gly	430
	435	440
Thr Ile Thr Ala Phe Met His Met Val Glu Tyr Arg Arg	Asn Gln Lys	445
	450	455
Gln Leu Arg Glu Thr Pro Ala Leu Pro Gly Asn Leu Thr Ala Asn Ser		460
465	470	475
Val Asp Val His Arg Leu Leu Gln Gln Ala Ile Glu Glu Gly Ala Thr		480
	485	490
Ser Leu Asp Thr His Glu Val Gln Pro Ile Leu Gly Ser Tyr Gly Met		495
	500	505
Gln Thr Leu Pro Thr Trp Ile Ala Gly Asp Ser Ala Glu Ala Val His		510
	515	520
Ile Ala Glu Gln Ile Gly Tyr Pro Val Ala Leu Lys Leu Arg Ser Pro		525
	530	535
Asp Ile Pro His Lys Ser Asp Val Gln Gly Val Met Leu Tyr Leu Arg		540
545	550	555
Thr Ala Thr Glu Val Gln Gln Ala Ala Asp Ala Ile Ile Asp Arg Val		560
	565	570
Lys Met Thr Trp Pro Gln Ala Arg Ile His Gly Leu Leu Val Gln Ser		575
	580	585
Met Ala Asn Arg Ala Gly Ala Gln Glu Leu Arg Val Val Val Glu His		590
	595	600
Asp Pro Val Phe Gly Pro Leu Ile Met Leu Gly Glu Gly Val Glu		605
	610	615
Trp Arg Pro Glu Glu Gln Ala Val Val Ala Leu Pro Pro Leu Asn Met		620
625	630	635
Asn Leu Ala Arg Tyr Leu Ile Ile Gln Ala Ile Lys Ser Lys Lys Ile		640
	645	650
Arg Gly Arg Ser Ala Leu Arg Pro Leu Asp Ile Ala Gly Leu Ser Gln		655
	660	665
Phe Leu Val Lys Val Ser Asn Leu Ile Val Asp Cys Ala Glu Ile Gln		670
	675	680
Arg Leu Asp Ile His Pro Leu Leu Ala Ser Gly Asn Glu Phe Thr Ala		685
	690	695
Leu Asp Val Thr Leu Asp Ile Ala Pro Tyr Ile Gly Asp Pro Glu Ser		700
705	710	715
Arg Leu Ala Ile Arg Pro Tyr Pro Leu His Leu Glu Glu Trp Val Glu		720
	725	730
Met Lys Asn Gly Glu Arg Ala Leu Phe Arg Pro Ile Leu Pro Glu Asp		735
	740	745
Glu Pro Leu Leu Arg Ala Phe Ile Ser Gln Val Thr Lys Glu Asp Leu		750
	755	760
Tyr Tyr Arg Tyr Phe Ser Glu Ile Asn Glu Phe Thr His Asp Asp Leu		765
	770	775
Ala Asn Met Thr Gln Ile Asp Tyr Asp Arg Glu Met Ala Ile Val Ala		780
785	790	795
Val Arg Arg Ser Gly Ala Gly Glu Glu Ile Leu Gly Val Thr Arg Ala		800
	805	810
Ile Ser Asp Pro Asp Asn Val Asp Ala Glu Phe Ala Val Leu Val Arg		815
	820	825
Ser Asp Leu Lys Gly Leu Gly Leu Gly Arg Arg Leu Leu Glu Lys Leu		830
	835	840
Ile Gly Tyr Thr Arg Asp His Gly Leu Ser Arg Leu Asn Gly Ile Thr		845
850	855	860

Met Pro Asn Asn Arg Gly Met Val Thr Leu Ala Arg Lys Leu Gly Phe
 865 870 875 880
 Asp Val Asp Ile Gln Leu Asp Glu Gly Ile Val Ser Leu Ser Leu Ser
 885 890 895
 Leu Thr Ser Thr Asp Lys Gln Glu
 900 905

<210> 6528

<211> 261

<212> PRT

<213> Enterobacter cloacae

<400> 6528

Thr Asn Pro Cys Asn Ile Arg Gly Ala Tyr Leu Val Pro Arg Ser Leu
 1 5 10 15
 Leu Cys Glu Asn Gly Val Phe Pro Ala Phe Ser Pro Met Thr Asp Asn
 20 25 30
 Ala Val Leu Gln Leu Arg Ala Glu Arg Leu Ala Arg Ala Thr Arg Pro
 35 40 45
 Phe Leu Ala Arg Gly Asn Arg Ile Arg Arg Cys Gln Arg Cys Leu Leu
 50 55 60
 Pro Leu Lys Val Cys Leu Cys Glu Thr Leu Ala Pro Ser Glu Ala Lys
 65 70 75 80
 Ser Arg Phe Cys Leu Val Met Phe Asp Thr Glu Pro Met Lys Pro Ser
 85 90 95
 Asn Thr Gly Arg Leu Ile Ala Asp Ile Leu Pro Asn Thr Ala Ala Phe
 100 105 110
 Gln Trp Ser Arg Thr Glu Pro Pro Gln Ala Leu Leu Asp Leu Val Ala
 115 120 125
 Ser Pro Asp Tyr Gln Pro Met Val Val Phe Pro Ala Ser Tyr Ala Gly
 130 135 140
 Glu Gln Arg Gln Val Leu Thr Ala Pro Pro Ser Gly Lys Pro Pro Leu
 145 150 155 160
 Phe Ile Met Leu Asp Gly Thr Trp Thr Glu Ala Arg Lys Met Phe Arg
 165 170 175
 Lys Ser Pro Tyr Leu Asp Ala Leu Pro Val Ile Ser Val Asp Leu Ser
 180 185 190
 Arg Val Ser Ala Tyr Arg Leu Arg Glu Ala His Ala Asp Gly Gln Tyr
 195 200 205
 Cys Thr Ala Glu Val Ala Ile Ala Leu Leu Asp Leu Ala Gly Asp Thr
 210 215 220
 Gln Ala Ala Gly Ala Leu Gly Ser His Phe Ser Cys Phe Arg Glu Arg
 225 230 235 240
 Tyr Leu Ala Gly Lys Thr Val His Lys Gly Ser Val Thr Ala Thr Glu
 245 250 255
 Ala Glu Ser Val
 260

<210> 6529

<211> 459

<212> PRT

<213> Enterobacter cloacae

<400> 6529

Thr Glu Lys Lys Arg Thr Val Met Leu Ser Lys Phe Lys Arg Asn Lys
 1 5 10 15
 His Gln Gln His Leu Ala Gln Leu Pro Lys Ile Ser Gln Ser Val Asp
 20 25 30
 Asp Val Glu Phe Phe Tyr Ala Pro Ala His Phe Arg Glu Thr Leu Leu
 35 40 45
 Glu Lys Ile Ala Ser Ala Thr Arg Arg Ile Cys Ile Val Ala Leu Tyr

50					55					60					
Leu	Glu	Gln	Asp	Glu	Gly	Gly	Arg	Ala	Ile	Leu	Asn	Ala	Leu	Tyr	Glu
65					70					75					80
Ala	Lys	Arg	Gln	Arg	Pro	Glu	Leu	Asp	Val	Arg	Val	Leu	Val	Asp	Trp
				85					90					95	
His	Arg	Ala	Gln	Arg	Gly	Arg	Ile	Gly	Ala	Ala	Ala	Ser	Asn	Thr	Asn
			100					105					110		
Ala	Asp	Trp	Tyr	Cys	Arg	Thr	Ala	Gln	Glu	Asn	Pro	Gly	Ile	Asp	Ile
		115					120					125			
Pro	Val	Tyr	Gly	Val	Pro	Val	Asn	Thr	Arg	Glu	Ala	Leu	Gly	Val	Leu
	130					135					140				
His	Phe	Lys	Gly	Phe	Ile	Ile	Asp	Asp	Ser	Val	Leu	Tyr	Ser	Gly	Ala
145					150					155					160
Ser	Leu	Asn	Asp	Val	Tyr	Leu	His	Gln	Leu	Asp	Lys	Tyr	Arg	Tyr	Asp
			165					170						175	
Arg	Tyr	His	Leu	Ile	Arg	Asn	Pro	Gln	Met	Ala	Asp	Ile	Met	Phe	Asn
			180					185					190		
Trp	Val	Asp	Lys	Asn	Leu	Val	His	Gly	Arg	Gly	Val	His	Arg	Leu	Asp
	195						200					205			
Asp	Pro	His	Arg	Pro	Lys	Ser	Pro	Glu	Ile	Lys	Asn	Asp	Val	Arg	Ser
	210					215					220				
Phe	Arg	Gln	Glu	Leu	Arg	Asp	Ala	Val	Tyr	Arg	Phe	Gln	Gly	Asp	Ala
225					230					235					240
Ser	Asn	Glu	Glu	Leu	Ser	Val	Thr	Pro	Leu	Val	Gly	Leu	Gly	Lys	Ser
			245					250						255	
Ser	Leu	Leu	Asn	Lys	Thr	Ile	Phe	His	Leu	Met	Pro	Cys	Ala	Glu	His
			260				265					270			
Lys	Leu	Thr	Ile	Cys	Thr	Pro	Tyr	Phe	Asn	Leu	Pro	Ala	Val	Leu	Val
	275					280					285				
Arg	Asn	Ile	Ile	Gln	Leu	Leu	Arg	Asp	Gly	Lys	Lys	Val	Glu	Ile	Ile
	290					295					300				
Val	Gly	Asp	Lys	Thr	Ala	Asn	Asp	Phe	Phe	Ile	Pro	Glu	Asp	Gln	Pro
	305				310					315					320
Phe	Lys	Ile	Ile	Gly	Ala	Leu	Pro	Tyr	Leu	Tyr	Glu	Ile	Asn	Leu	Arg
			325					330						335	
Arg	Phe	Leu	Ser	Arg	Leu	Gln	Tyr	Tyr	Val	Asn	Thr	Asp	Gln	Leu	Val
			340				345					350			
Val	Arg	Leu	Trp	Lys	Asp	Glu	Asp	Asn	Ser	Tyr	His	Leu	Lys	Gly	Ile
	355					360					365				
Trp	Val	Asp	Asp	Glu	Trp	Met	Leu	Leu	Thr	Gly	Asn	Asn	Leu	Asn	Pro
	370					375					380				
Arg	Ala	Trp	Arg	Leu	Asp	Leu	Glu	Asn	Ala	Ile	Leu	Ile	His	Asp	Pro
	385				390					395					400
Gln	His	Ala	Leu	Ala	Ala	Lys	Arg	Asp	Arg	Glu	Leu	Glu	Leu	Ile	Arg
			405					410						415	
Thr	His	Thr	Thr	Val	Val	Arg	His	Tyr	Arg	Asp	Leu	Gln	Ser	Ile	Ala
		420					425					430			
Asp	Tyr	Pro	Val	Lys	Val	Arg	Lys	Leu	Ile	Arg	Arg	Leu	Arg	Arg	Ile
	435					440						445			
Arg	Ile	Asp	Arg	Leu	Ile	Ser	Arg	Ile	Leu						
	450					455									

<210> 6530

<211> 141

<212> PRT

<213> Enterobacter cloacae

<400> 6530

Phe	Ala	Val	Tyr	Val	Gly	Ser	Val	Ser	Thr	Ala	Ser	Ser	Ala	Ala	Phe
1				5					10				15		
Cys	Asn	Thr	Arg	Ala	Leu	Ser	Ser	Thr	Gly	Leu	Phe	Leu	Trp	Ser	Leu

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<210> 6531
<211> 459
<212> PRT
<213> Enterobacter cloacae
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<400>	6531														
Arg 1	Phe	Val	Leu	Asn 5	Pro	Val	Leu	Leu	Phe 10	Val	Gly	Asn	Gly	Pro 15	Gln
Cys	Glu	Thr	Gly 20	Asp	Phe	Lys	Met	Thr 25	Glu	Thr	Val	Ala	Ser 30	Ala	Asp
Thr	Asp	Asn 35	Thr	Ser	Leu	Ala	Gly 40	Lys	Asp	Thr	Arg	Arg 45	Arg	Val	Trp
Ala	Ile 50	Val	Gly	Ala	Ser	Ser 55	Gly	Asn	Leu	Val	Glu 60	Trp	Phe	Asp	Phe
Tyr 65	Val	Tyr	Ser	Phe	Cys 70	Ser	Leu	Tyr	Phe	Ala 75	His	Ile	Phe	Phe 80	Pro
Ser	Gly	Asn	Thr	Thr 85	Thr	Gln	Leu	Leu	Gln 90	Thr	Ala	Gly	Val	Phe 95	Ala
Ala	Gly	Phe	Leu 100	Met	Arg	Pro	Ile	Gly 105	Gly	Trp	Leu	Phe	Gly 110	Arg	Ile
Ala	Asp	Arg 115	Lys	Gly	Arg	Lys	Thr 120	Ser	Met	Leu	Ile	Ser 125	Val	Cys	Met
Met	Cys 130	Val	Gly	Ser	Leu	Val 135	Ile	Ala	Cys	Leu	Pro 140	Gly	Tyr	Asp	Thr
Ile 145	Gly	Thr	Trp	Ala	Pro 150	Ala	Leu	Leu	Leu	Leu 155	Ala	Arg	Leu	Phe	Gln
Gly	Leu	Ser	Val	Gly 165	Gly	Glu	Tyr	Gly	Thr 170	Ser	Ala	Thr	Tyr	Met 175	Ser
Glu	Val	Ala	Val 180	Glu	Gly	Arg	Lys	Gly 185	Phe	Tyr	Ala	Ser	Phe 190	Gln	Tyr
Val	Thr	Leu 195	Ile	Gly	Gly	Gln	Leu 200	Leu	Ala	Leu	Leu	Val 205	Val	Val	Ile
Leu	Gln 210	Gln	Ile	Leu	Ser	Asp 215	Glu	Asp	Leu	Arg	Ala 220	Trp	Gly	Trp	Arg
Ile 225	Pro	Phe	Ala	Leu	Gly 230	Ala	Ala	Leu	Ala	Val 235	Val	Ala	Leu	Trp	Leu
Arg	Arg	Gln	Leu	Asp 245	Glu	Thr	Ser	Gln	Gln 250	Glu	Val	Arg	Ala	Leu 255	Lys
Glu	Ala	Gly	Ser 260	Met	Lys	Gly	Leu	Trp 265	Arg	Asn	Arg	Lys	Ala 270	Phe	Leu
Met	Val 275	Leu	Gly	Phe	Thr	Ala	Ala 280	Gly	Ser	Leu	Ser	Phe 285	Tyr	Thr	Phe
Thr	Thr 290	Tyr	Met	Gln	Lys	Tyr 295	Leu	Val	Asn	Thr	Thr 300	Gly	Met	His	Ala
Asn	Val	Ala	Ser	Val	Val	Met	Thr	Val	Ala	Leu	Leu	Val	Phe	Met	Leu

305					310					315				320
Ile	Gln	Pro	Ile	Val	Gly	Ala	Leu	Ser	Asp	Lys	Ile	Gly	Arg	Arg Thr
				325					330					335
Ser	Met	Leu	Ile	Phe	Gly	Gly	Met	Leu	Thr	Leu	Gly	Thr	Val	Pro Leu
			340					345					350	
Leu	Thr	Ala	Leu	Gln	His	Thr	Thr	Ser	Pro	Tyr	Ala	Ala	Phe	Ala Leu
		355					360					365		
Ile	Met	Val	Ala	Leu	Ile	Ile	Ile	Ser	Phe	Tyr	Thr	Ala	Ile	Ser Gly
	370					375					380			
Ile	Leu	Lys	Ala	Glu	Met	Phe	Pro	Ala	Gln	Val	Arg	Ala	Leu	Gly Val
385				390					395					400
Gly	Leu	Ser	Tyr	Ala	Val	Ala	Asn	Ala	Leu	Phe	Gly	Gly	Ser	Ala Glu
				405					410					415
Tyr	Val	Ala	Leu	Ser	Leu	Lys	Ser	Trp	Gly	Ser	Glu	Thr	Thr	Phe Phe
			420				425						430	
Trp	Tyr	Val	Thr	Ile	Met	Gly	Ala	Leu	Ala	Phe	Ile	Val	Ser	Leu Met
		435				440						445		
Leu	His	Arg	Lys	Gly	Lys	Gly	Ile	Arg	Leu					
	450					455								

<210> 6532

<211> 147

<212> PRT

<213> Enterobacter cloacae

<400> 6532

Gly	Gly	Leu	Val	Arg	Ser	Cys	Gln	Ser	Arg	Gly	Glu	Asp	Leu	Glu	Leu
1				5					10					15	
His	Leu	Glu	Gln	Leu	Phe	Leu	Glu	His	Gly	Leu	Thr	Gln	Phe	Ala	Thr
			20					25					30		
Gln	Ser	Val	Thr	Glu	Gly	Asn	Lys	Lys	Pro	Asp	Phe	Leu	Phe	Pro	Ser
		35					40					45			
Ser	Asp	Ala	Tyr	His	Asp	Lys	Ala	Phe	Pro	Asp	Glu	Lys	Leu	His	Met
	50					55					60				
Leu	Ala	Val	Lys	Thr	Thr	Cys	Lys	Asp	Arg	Trp	Arg	Gln	Val	Leu	Asn
65					70					75					80
Glu	Ala	Asp	Arg	Ile	Gln	Asn	Ile	His	Leu	Phe	Thr	Leu	Gln	Glu	Gly
				85					90					95	
Val	Ser	Leu	Ala	Gln	Phe	Lys	Glu	Met	Gln	Gln	Glu	Arg	Val	Thr	Leu
			100					105					110		
Val	Val	Pro	Ser	Ser	Leu	His	Lys	Lys	Tyr	Pro	Glu	Ala	Val	Arg	Pro
		115					120					125			
Glu	Leu	Met	Thr	Leu	Gly	His	Phe	Ile	Ala	Arg	Leu	Ile	Gly	Ile	Tyr
	130					135					140				
Ala	Ala														
145															

<210> 6533

<211> 519

<212> PRT

<213> Enterobacter cloacae

<400> 6533

Ser	Arg	Val	Ser	Gly	Phe	Leu	Ser	Gln	Leu	Thr	Pro	Pro	Ala	Ala	Ser
1				5					10					15	
Leu	Thr	Ser	Tyr	Thr	Gln	Leu	Pro	Glu	Ser	Pro	Met	Thr	Trp	Lys	Asn
			20					25					30		
Thr	Ala	Glu	Gln	Asn	Ala	Ile	Ile	Glu	Trp	Lys	Gly	Thr	His	Leu	Val
		35					40					45			
Val	Asn	Ala	Phe	Ala	Gly	Thr	Gly	Lys	Thr	Thr	Thr	Leu	Val	Ser	Tyr
	50					55					60				

Ala	Glu	Ala	Asn	Pro	Glu	Ser	Arg	Met	Leu	Tyr	Leu	Ala	Tyr	Asn	Arg
65					70					75					80
Ala	Val	Arg	Asp	Glu	Ala	Glu	Arg	Arg	Phe	Pro	Tyr	Asn	Val	Glu	Cys
				85					90					95	
Lys	Thr	Ser	His	Gln	Leu	Ala	Trp	Ala	Arg	Phe	Gly	Lys	His	Phe	Arg
			100					105					110		
Asp	Arg	Leu	Thr	Ala	Ser	Leu	Arg	Ile	Thr	Asp	Val	Ala	Arg	Lys	Leu
		115					120					125			
Asn	Thr	Arg	His	Trp	Pro	Leu	Ala	Arg	Leu	Ala	Leu	Ser	Gly	Leu	Asn
	130					135					140				
Met	Phe	Leu	Cys	Ser	Ala	Asp	Pro	Glu	Pro	Gly	Leu	Ile	His	Leu	Pro
145					150					155					160
Ser	Glu	Asp	Asp	Arg	His	Gly	Leu	Asp	Ala	Gly	Lys	Ile	Leu	Gly	Ala
				165					170					175	
Ile	Gln	Ile	Leu	Trp	Tyr	Glu	Met	Ser	Arg	Thr	Asp	Ser	Val	Phe	Pro
			180					185					190		
Val	Thr	His	Asp	Thr	Tyr	Leu	Lys	Met	Phe	Gln	Leu	Ser	Gln	Pro	Asp
		195					200					205			
Leu	Ser	Lys	Arg	Trp	Asp	Thr	Ile	Leu	Phe	Asp	Glu	Ala	Gln	Asp	Ala
	210					215					220				
Asn	Pro	Val	Thr	Ser	Ala	Phe	Val	Leu	Asn	Gln	Pro	Cys	Arg	Val	Ile
225					230					235					240
Leu	Val	Gly	Asp	Arg	Tyr	Gln	Gln	Ile	Tyr	Arg	Phe	Arg	Gly	Ala	Asp
				245					250					255	
Asn	Ala	Leu	Asn	Ala	Arg	Gln	Leu	Ala	Gln	Ala	Asp	Arg	Leu	Trp	Leu
			260					265					270		
Thr	Ala	Ser	Phe	Arg	Phe	Gly	Pro	Glu	Val	Ala	Arg	Val	Ala	Asn	Ile
		275					280					285			
Leu	Leu	Glu	Arg	Ala	Gly	Glu	Gly	Lys	Arg	Val	Ala	Gly	Asn	Gly	Gly
	290					295					300				
Gln	Asp	Ala	Val	Val	Ser	Asp	Leu	Pro	Ala	Gly	Ala	Glu	His	Ile	Thr
305					310					315					320
Val	Leu	Ser	Arg	Thr	Val	Ser	Gly	Val	Ile	Gly	Ser	Ala	Leu	Thr	Ala
				325					330					335	
Ser	Leu	Met	Glu	Lys	Lys	Val	Phe	Trp	Val	Gly	Gly	Ile	Glu	Gly	Tyr
		340						345					350		
Lys	Thr	Glu	Glu	Leu	Glu	Asp	Leu	Tyr	Trp	Phe	Ser	Ala	Asp	Met	Pro
	355						360					365			
Glu	Lys	Met	Gln	Ser	Pro	Arg	Leu	Ser	Arg	Asp	Tyr	Arg	Asp	Phe	Asp
	370					375					380				
Glu	Tyr	Cys	Ser	Ile	Ala	Lys	Ala	Thr	Gln	Asp	Val	Glu	Met	Asn	Gln
385					390					395					400
Ala	Ile	Arg	Leu	Leu	Asp	Asp	Phe	Phe	Pro	Leu	Pro	Gln	Lys	Leu	Ala
				405					410					415	
Ile	Met	Arg	Arg	Gln	Val	Val	Ser	His	Glu	Lys	Glu	Ala	Gln	Val	Thr
			420					425					430		
Val	Ser	Thr	Ala	His	Arg	Ser	Lys	Gly	Leu	Glu	Trp	Ser	Val	Val	Met
		435					440					445			
Leu	Ser	Glu	Asp	Phe	Thr	Asp	Ile	Thr	Asp	Pro	Leu	Leu	Ser	Gln	Glu
	450					455					460				
Glu	Arg	Gln	Asp	Glu	Thr	Asn	Leu	Leu	Tyr	Val	Ala	Val	Thr	Arg	Ala
465					470					475					480
Arg	Lys	Thr	Leu	Val	Leu	Asn	Glu	Leu	Met	Arg	Trp	Leu	Ser	Glu	Ala
				485					490					495	
Gly	Glu	Gly	Asp	Asp	Glu	Asn	Asp	Ala	Val	Met	Pro	Asp	Asp	Thr	Gly
			500					505					510		
Glu	Ile	Ser	Gly	Thr	Glu										
		515													

<210> 6534

<211> 548

<212> PRT
 <213> Enterobacter cloacae

<220>
 <221>UNSURE
 <222>(85)

<220>
 <221>UNSURE
 <222>(88)

<400> 6534

Ala	Ala	Leu	Tyr	Gln	Glu	Asn	Ile	Met	Leu	Ser	Arg	Ile	Arg	Thr	Leu
1				5					10					15	
Arg	Ser	Leu	Phe	Ser	Lys	Gly	Glu	Pro	Glu	Ala	Val	His	His	Ile	Ser
			20					25					30		
Thr	Val	Thr	Pro	Val	Gly	Tyr	His	Ala	Pro	Arg	Gly	Ala	Gly	Met	Leu
		35					40					45			
Cys	Ala	Ser	Pro	Leu	Arg	Lys	Thr	Cys	Leu	Gln	Gln	Ile	Trp	Glu	Asn
	50					55				60					
Cys	Ser	Leu	Pro	Ala	Asp	Ile	Tyr	Gln	Arg	Leu	Tyr	Leu	Ala	Pro	Leu
65					70					75					80
Asn	Gly	Leu	Leu	Xaa	Arg	Val	Xaa	Asn	Val	Pro	Ala	Thr	Gln	Lys	Gly
				85				90						95	
Arg	Trp	Ser	Gln	Ser	Ala	Gly	Phe	Gly	Asp	Leu	Thr	Leu	Gln	Phe	Thr
			100					105					110		
Thr	Cys	Ala	Val	Arg	Leu	Ala	Lys	Gly	Tyr	Met	Phe	Pro	Pro	Gly	Ala
	115						120					125			
Ala	Pro	Glu	Glu	Gln	Ala	Glu	Gln	Asn	Val	Met	Trp	Asn	Ala	Val	Ile
	130					135					140				
Ile	Trp	Ser	Ala	Leu	Phe	Trp	His	Leu	Leu	Phe	Leu	Ala	Thr	Leu	Glu
145					150					155					160
Gly	Glu	Leu	Leu	Asp	Gly	Lys	Ser	Trp	Leu	Pro	Gly	Met	Thr	Ile	Pro
				165				170						175	
Asp	Ser	Pro	Tyr	Arg	Phe	Arg	Phe	Arg	Glu	Ala	Glu	Asn	Ala	Ser	Ala
			180					185					190		
Phe	Ala	Ala	Leu	Ala	Ala	Gly	Gln	Leu	Met	Pro	Thr	Glu	Ala	Thr	Gly
	195						200					205			
Trp	Leu	Ala	Glu	Asn	Pro	Glu	Ala	Leu	Cys	Asn	Leu	Ala	Gly	Ala	Leu
	210					215					220				
Trp	Asn	Gln	His	Pro	Gly	Met	Pro	Leu	Ile	Arg	Gly	Leu	Met	Lys	Gln
225					230					235					240
Ala	Ala	Glu	Lys	Val	Glu	Ser	Pro	Ser	Leu	Gly	Ile	Ser	Gly	Ala	Asn
				245					250					255	
Glu	Lys	Val	Asp	Thr	Leu	Ala	Glu	Pro	Ala	Leu	Ser	Val	Ser	Arg	Thr
			260					265					270		
Ser	Ser	Asp	Arg	Glu	Thr	Glu	Leu	Gln	Pro	Ser	Ser	Glu	Ala	Lys	Leu
		275					280					285			
Lys	Thr	Ala	Leu	Pro	Glu	Ile	Ala	Asp	Leu	Gln	Gly	Thr	Leu	Leu	Ala
	290					295					300				
Ser	Ser	Ile	Ala	Pro	Val	Pro	Met	Ala	Asp	Asp	Gly	Asn	Leu	Val	Ser
305					310				315						320
Asn	Glu	Lys	Ala	Gly	Glu	Ile	Thr	Glu	Cys	Asp	Pro	Asn	Glu	Thr	Glu
				325					330					335	
Met	Ala	Asp	Thr	Glu	Met	Leu	Leu	Ser	Leu	Phe	Ser	Ala	Ile	Ser	Val
			340					345					350		
Pro	Asp	Met	Thr	Gly	Thr	Glu	Ala	Cys	Asp	Glu	Asp	Ser	Ser	Val	Asn
		355					360					365			
Ala	Arg	Ala	Glu	Asn	Glu	Pro	Glu	Phe	Ser	Pro	Leu	Asn	Glu	Ile	Ser
	370					375					380				
Pro	Glu	Ala	Asp	Lys	His	Glu	Ile	Asn	Gln	Thr	Ala	Ala	Glu	Asn	Ser

385 390 395 400
 Phe Pro Glu Pro Asp Thr Glu Asp Asn Ile Pro Leu His Ser Val Asn
 405 410 415
 Ile Asp Met Gln Lys Thr Val Lys Lys Glu Gln Ala Gly Thr Glu Phe
 420 425 430
 Leu Arg Trp Leu Ser Glu Gly Ile Lys Ser Lys Arg Ile Asp Ile Asn
 435 440 445
 Gln Pro Asp Ser Arg Ala His Ala Val Ala Gly Phe Ile Phe Leu Arg
 450 455 460
 Val Pro Asp Ile Phe Tyr Leu Tyr Ile Arg Glu Ser Gly Ser Glu Leu
 465 470 475 480
 Ser Arg Asp Ser Leu Gln Gln Glu Phe Glu Lys Leu His Ile His Arg
 485 490 495
 Val Arg Arg Gly Glu Arg Phe Ile Lys Ala Lys Leu Tyr His Ser Pro
 500 505 510
 Gly Lys Glu Gly Thr Phe Arg Pro Val Ser Gly Tyr Leu Val Lys Thr
 515 520 525
 Thr His Leu Phe Arg Gly Ala Ser Ser Pro Glu Asp Ser Gly Leu Leu
 530 535 540
 Ser Phe Leu
 545

<210> 6535

<211> 468

<212> PRT

<213> Enterobacter cloacae

<400> 6535

Leu Gly His Leu Asn Pro Met Met Ile Asn Glu Ala Gln Ala Gln Ala
 1 5 10 15
 Thr Ala Ala Ser Gly Ser Gly Asp Gly Arg Tyr Pro Ser Gly Leu Cys
 20 25 30
 Ala Gly Ala Glu Ile Ile Pro Ala Ala Asp Glu Gln Thr Lys Ala Glu
 35 40 45
 Pro Leu Thr Met Glu Ala Val Ile Thr Arg Glu Asn Leu Met Leu Ala
 50 55 60
 Tyr Gln Arg Val Val Glu Asn Lys Gly Ala Ala Gly Val Asp Asn Leu
 65 70 75 80
 Ser Val Ala Glu Leu Lys Pro Trp Leu Lys Arg His Trp Pro Gly Ile
 85 90 95
 Arg Gln Ala Leu Ile Asp Gly Asn Tyr Gln Pro Arg Ala Ile Arg Arg
 100 105 110
 Met Asp Ile Pro Lys Pro Asp Gly Gly Val Arg Thr Leu Gly Ile Pro
 115 120 125
 Thr Val Val Asp Arg Leu Ile Gln Gln Ala Ile Ala Gln Arg Leu Ser
 130 135 140
 Ala Ile Val Asp Lys Asp Phe Ser Asp Ser Ser Tyr Gly Phe Arg Pro
 145 150 155 160
 Gly Arg Ser Ala Trp Gln Ala Val Gln Gln Ala Gln Arg Tyr Val Arg
 165 170 175
 Ser Gly Lys Arg Trp Val Val Asp Met Asp Leu Glu Lys Phe Phe Asp
 180 185 190
 Arg Val Asp His Arg Leu Leu Leu Ala Arg Leu Ala Arg Lys Ile Arg
 195 200 205
 Asp Arg Arg Leu Leu Arg Leu Ile Arg Arg Tyr Leu Lys Ala Glu Met
 210 215 220
 Val Lys Gly Gly Glu Arg Glu Lys Arg Arg Glu Gly Met Pro Gln Gly
 225 230 235 240
 Gly Pro Leu Ser Pro Leu Leu Ser Asn Ile Leu Leu Asp Glu Leu Asp
 245 250 255
 Lys Glu Leu Glu Arg Arg Gly His Ser Phe Cys Arg Tyr Ala Asp Asp

	260		265		270
Cys	Asn	Ile	Tyr	Val	Ser
	275				Ser
Ala	Val	Arg	Glu	Phe	Val
	290				Glu
Gln	Lys	Ser	Ala	Val	Ala
305					Arg
Ser	Val	Thr	Trp	His	Lys
					Gln
Val	Gly	Arg	Leu	Lys	Asp
					Lys
Ser	Arg	Ser	Val	Lys	Ala
					Thr
Gly	Trp	Ile	Ser	Tyr	Phe
					Arg
Glu	Leu	Asp	Gly	Trp	Ile
385					Asn
Gln	Trp	Lys	Arg	Pro	Arg
					Ser
Leu	Gly	Arg	Asp	Arg	Ala
					Met
Trp	Trp	Asn	Ser	Gly	Ala
					Ser
Trp	Phe	Arg	Gly	Leu	Gly
					Leu
Phe	Gln	Arg			
465					

<210> 6536

<211> 68

<212> PRT

<213> Enterobacter cloacae

<400> 6536

Thr	Gln	Thr	Asn	Arg	Pro	Ala	Ala	Glu	Ile	Leu	Pro	Glu	Leu	Gly	Gln
1			5					10						15	
Leu	Ser	Arg	Arg	Gln	Ile	Ala	Ala	Leu	Val	Glu	Val	Ala	Pro	Tyr	Asp
			20					25					30		
Arg	Asp	Ser	Gly	Arg	Met	Lys	Gly	Arg	Arg	Val	Ile	Trp	Gly	Gly	Lys
			35				40					45			
Ser	Trp	Pro	Ser	Ile	His	Phe	Val	Tyr	Gly	Cys	Ala	Phe	Cys	Cys	Thr
			50			55					60				
Val	Gln	Ser													
65															

<210> 6537

<211> 532

<212> PRT

<213> Enterobacter cloacae

<400> 6537

Thr	Ala	Asp	Pro	Arg	Cys	Cys	Lys	Thr	Asp	Val	Cys	Leu	Trp	Phe	Asp
1				5				10						15	
Gly	Glu	Pro	Lys	Lys	Arg	Thr	Asn	Leu	Asn	His	Trp	Leu	Asn	Ile	Gln
			20				25					30			
Ile	Asn	Leu	Phe	Tyr	Leu	Gly	Gln	Met	Ser	Asp	Met	Val	Ser	Pro	Met
			35			40					45				
Arg	Pro	Thr	Gly	Gly	Ala	Met	Ser	Glu	Phe	Glu	Leu	Leu	Ala	Gln	Asp
			50			55				60					
Leu	Leu	Gln	Lys	Ser	Glu	Glu	Glu	Glu	Lys	Leu	Gln	Gln	Glu	Lys	Asp
65					70			75							80

Lys Glu Leu Ile Ala Lys Val Leu Glu Ile Tyr Asp Gln Lys Tyr Val
 85 90 95
 Ala Glu Leu Leu Arg Lys Val Gly Asn Asn Asp Trp Ser Arg Glu Thr
 100 105 110
 Ile Asn Arg Trp Ile Asn Gly Lys Cys Gly Pro Lys Ser Leu Thr Ser
 115 120 125
 Ala Glu Glu Ile Leu Leu Arg Lys Met Leu Pro Glu Pro Pro Lys His
 130 135 140
 His Pro Asp Tyr Ala Phe Arg Phe Ile Asp Leu Phe Ala Gly Ile Gly
 145 150 155 160
 Gly Ile Arg Lys Gly Phe Glu Glu Ile Gly Arg His Cys Val Phe Thr
 165 170 175
 Ser Glu Trp Asn Lys Glu Ala Val Arg Thr Tyr Lys Ala Asn Trp Phe
 180 185 190
 Asn Asp Glu Leu Glu His Lys Phe Asn Leu Asp Ile Arg Glu Val Thr
 195 200 205
 Leu Ser Asp Arg Glu Asp Leu Ser Glu Thr Ala Ala Tyr Lys His Ile
 210 215 220
 Asp Lys Glu Ile Pro Asp His Asp Val Leu Leu Ala Gly Phe Pro Cys
 225 230 235 240
 Gln Pro Phe Ser Leu Ala Gly Val Ser Lys Lys Asn Ser Leu Gly Arg
 245 250 255
 Ala His Gly Phe Glu Cys Glu Ala Gln Gly Thr Leu Phe Phe Asp Val
 260 265 270
 Ala Arg Ile Ile Lys Ala Lys Lys Pro Ala Ile Phe Val Leu Glu Asn
 275 280 285
 Val Lys Asn Leu Lys Ser His Asp Lys Gly Lys Thr Phe Lys Val Ile
 290 295 300
 Met Glu Thr Leu Asp Glu Leu Gly Tyr Glu Val Ala Asp Ala Gly Val
 305 310 315 320
 Ser Gly Ser Asp Asp Pro Lys Ile Ile Asp Gly Lys Asn Phe Leu Pro
 325 330 335
 Gln His Arg Glu Arg Ile Val Leu Val Gly Phe Arg Arg Asp Leu Lys
 340 345 350
 Ile His Asp Gly Phe Thr Leu Arg Asn Ile His Lys Phe Tyr Pro Gln
 355 360 365
 Asn Arg Pro Thr Phe Gly Glu Leu Leu Asp Pro Ala Val Asp Ser Lys
 370 375 380
 Tyr Ile Leu Thr Pro Lys Leu Trp Glu Tyr Leu Tyr Asn Tyr Ala Lys
 385 390 395 400
 Lys His Ala Ala Lys Gly Asn Gly Phe Gly Phe Gly Leu Val Asp Pro
 405 410 415
 Thr Asn Val Asn Ser Val Ala Arg Thr Leu Ser Ala Arg Tyr His Lys
 420 425 430
 Asp Gly Ser Glu Ile Leu Ile Asp Arg Gly Trp Asp Lys Ala Lys Gly
 435 440 445
 Glu Leu Asp Phe Arg Asp Glu Glu Asn Gln Ser Arg Arg Pro Arg Arg
 450 455 460
 Leu Thr Pro His Glu Cys Ala Arg Leu Met Gly Phe Glu Lys Val Gly
 465 470 475 480
 Gly Lys Pro Phe Arg Ile Pro Val Ser Asp Thr Gln Ser Tyr Arg Gln
 485 490 495
 Phe Gly Asn Ser Val Val Val Pro Val Phe Glu Ala Val Ala Arg Leu
 500 505 510
 Leu Glu Pro Tyr Ile Gly Lys Ala Val Ala Val Arg Thr Asn Lys Ala
 515 520 525
 Lys Thr Lys
 530

<210> 6538

<211> 102

<212> PRT

<213> Enterobacter cloacae

<400> 6538

Lys Ala Val Gly Leu Ser Gly Val Gly Arg Ala Gly Leu Arg Ser Ile
 1 5 10 15
 Leu Phe Met Ala Val Leu Ser Val Val Arg Phe Asn Pro Lys Met Lys
 20 25 30
 His Tyr Tyr Gln Gly Leu Leu Glu Arg Gly Lys Val Lys Lys Val Ala
 35 40 45
 Leu Thr Ala Cys Ile Arg Lys Phe Ile Thr Ile Leu Asn Ala Met Val
 50 55 60
 Arg Asp Trp Lys Met Trp Ser Ala Glu Leu Gln Thr Pro Gly Val Ala
 65 70 75 80
 Lys Gln Met Phe Val Tyr Gly Ser Met Gly Ser Gln Lys Ser Glu Gln
 85 90 95
 Ile Ser Thr Thr Gly
 100

<210> 6539

<211> 461

<212> PRT

<213> Enterobacter cloacae

<400> 6539

Ala Thr Ile Asp Thr His Met Lys Ala Lys Ala Ile Leu Leu Ala Ser
 1 5 10 15
 Val Leu Leu Val Gly Cys Gln Ser Gln Asn Gly Ser Asn Val Gln Gln
 20 25 30
 His Ala Gln Ser Leu Ser Ala Ala Gly Gln Gly Glu Ala Gly Lys Phe
 35 40 45
 Thr Ser Gln Ala Arg Trp Leu Asp Asp Gly Thr Ser Phe Ala Gln Glu
 50 55 60
 Gln Asp Leu Trp Ala Ser Ile Gly Asp Glu Leu Lys Met Gly Ile Pro
 65 70 75 80
 Glu Asn Ser Arg Ile Arg Glu Gln Lys Gln Lys Tyr Leu Arg Asn Lys
 85 90 95
 Ser Tyr Leu His Asp Val Thr Leu Arg Ala Glu Pro Tyr Met Tyr Trp
 100 105 110
 Ile Ala Gly Gln Val Lys Lys Arg Asn Met Pro Met Glu Leu Val Leu
 115 120 125
 Leu Pro Ile Val Glu Ser Ala Phe Asp Pro His Ala Thr Ser Gly Ala
 130 135 140
 Asn Ala Ala Gly Ile Trp Gln Ile Ile Pro Ser Thr Gly Arg Asn Tyr
 145 150 155 160
 Gly Leu Lys Gln Thr Arg Asn Tyr Asp Ala Arg Arg Asp Val Val Ala
 165 170 175
 Ser Thr Thr Ala Leu Asp Met Met Gln Arg Leu Asn Lys Met Phe
 180 185 190
 Asp Gly Asp Trp Leu Leu Thr Val Ala Ala Tyr Asn Ser Gly Glu Gly
 195 200 205
 Arg Val Leu Lys Ala Met Lys Ala Asn Lys Ala Arg Gly Lys Ser Thr
 210 215 220
 Asp Phe Trp Ser Leu Ser Leu Pro Gln Glu Thr Lys Ile Tyr Val Pro
 225 230 235 240
 Lys Met Leu Ala Leu Ser Asp Ile Leu Lys Asn Ser Lys Arg Tyr Gly
 245 250 255
 Val Gln Leu Pro Thr Pro Asp Glu Ser Arg Ala Leu Ala Arg Val Arg
 260 265 270
 Leu Ser Ser Pro Val Asp Ile Gln Gln Val Ala Asp Met Thr Gly Met
 275 280 285

Ser Val Ser Lys Leu Lys Thr Phe Asn Ala Gly Val Lys Gly Ser Thr
 290 295 300
 Leu Gly Ala Ser Gly Pro Arg Tyr Val Met Val Pro Gln Lys His Ala
 305 310 315 320
 Glu Gln Leu Arg Glu Ser Leu Ala Ser Gly Glu Ile Ala Ala Val Gln
 325 330 335
 Ser Thr Leu Ile Ala Asp Thr Ser Pro Val Ser Ser Arg Ser Tyr Lys
 340 345 350
 Val Arg Ser Gly Asp Thr Leu Ser Gly Ile Ala Ser Arg Leu Gly Val
 355 360 365
 Asn Ala Lys Asp Leu Gln Gln Trp Asn Asn Leu Arg Gly Ser Gly Leu
 370 375 380
 Lys Val Gly Gln Thr Leu Asn Val Gly Ala Gly Ser Ser Ala Gln Arg
 385 390 395 400
 Leu Ala Lys Asn Ser Asp Ser Ile Thr Tyr Arg Val Arg Lys Gly Asp
 405 410 415
 Ser Leu Ser Ser Ile Ala Lys Arg His Gly Val Asn Ile Lys Asp Val
 420 425 430
 Met Arg Trp Asn Asn Asp Thr Asp Asn Leu Gln Pro Gly Asp Gln Leu
 435 440 445
 Thr Leu Phe Val Lys Asn Ser Ala Thr Pro Asp Ser
 450 455 460

<210> 6540

<211> 102

<212> PRT

<213> Enterobacter cloacae

<400> 6540

Ser Leu Arg Leu Ala Leu Ala Arg Pro Gly Ile Leu Glu Gly Thr Ser
 1 5 10 15
 Ser Arg Leu Ala Thr Ile Ala Ile Thr Pro Asn Ser Asp Thr Ala Arg
 20 25 30
 Lys Val Ser Arg Gln Pro Lys Cys Cys Pro Ile Asn Val Pro Asn Gly
 35 40 45
 Thr Pro Val Thr Ser Ala Thr Val Lys Pro Pro Asn Ile Ile Ala Met
 50 55 60
 Ala Asp Ala Ala Phe Ser Phe Gly Thr Arg Leu Val Ala Ile Val Glu
 65 70 75 80
 Pro Met Glu Lys Lys Thr Pro Cys Ala Arg Pro Val Ser Lys Arg Ala
 85 90 95
 Met Thr Ser Val Val
 100

<210> 6541

<211> 309

<212> PRT

<213> Enterobacter cloacae

<400> 6541

Asn Phe Ala Asp Asp Ala Ile Met Lys Ala Thr Ser Glu Glu Leu Thr
 1 5 10 15
 Ile Phe Val Ala Val Val Glu Ser Gly Ser Phe Ser Arg Ala Ala Glu
 20 25 30
 Gln Leu Gly Gln Ala Asn Ser Ala Ile Ser Arg Ser Val Lys Lys Leu
 35 40 45
 Glu Met Lys Leu Gly Val Ser Leu Leu Asn Arg Thr Thr Arg Gln Leu
 50 55 60
 Ser Leu Thr Glu Glu Gly Glu Arg Tyr Phe Arg Arg Val Gln Ser Val
 65 70 75 80
 Leu Gln Glu Met Ala Ala Ala Glu Thr Glu Ile Met Glu Ser Arg Ser

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<210> 6542
<211> 64
<212> PRT
<213> Enterobacter cloacae
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<210> 6543
<211> 273
<212> PRT
<213> Enterobacter cloacae
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<400> 6543
Arg Leu Arg Asn His Met Thr Ile Pro Ala Leu Gly Leu Gly Thr Phe
1      5      10      15
Arg Leu Lys Asp Asp Val Val Ile Ala Ser Val Lys Thr Ala Leu Glu
20     25     30
Leu Gly Tyr Arg Ala Ile Asp Thr Ala Gln Ile Tyr Asp Asn Glu Ala
35     40     45
Ala Val Gly Gln Ala Ile Glu Ser Gly Val Pro Arg Asp Glu Leu
50     55     60
Phe Val Thr Thr Lys Ile Trp Ile Glu Asn Leu Ser Lys His Lys Leu
65     70     75     80

```

Ile	Pro	Ser	Leu	Lys	Glu	Ser	Leu	Lys	Lys	Leu	Arg	Thr	Asp	Tyr	Val
				85					90					95	
Asp	Leu	Thr	Leu	Ile	His	Trp	Pro	Ser	Pro	Asp	Asp	Ala	Val	Ser	Val
			100					105					110		
Glu	Glu	Phe	Met	Gln	Ala	Leu	Leu	Glu	Ala	Lys	Glu	Gln	Gly	Leu	Thr
		115					120					125			
Arg	Glu	Ile	Gly	Ile	Ser	Asn	Phe	Thr	Ile	Pro	Leu	Met	Glu	Arg	Ala
	130					135					140				
Ile	Ala	Ala	Val	Gly	Lys	Glu	Asn	Ile	Ala	Thr	Asn	Gln	Ile	Glu	Leu
145					150					155				160	
Ser	Pro	Tyr	Leu	Gln	Asn	Arg	Lys	Val	Val	Asp	Trp	Ala	Lys	Gln	His
			165						170					175	
Ser	Ile	His	Ile	Thr	Ser	Tyr	Met	Thr	Leu	Ala	Tyr	Gly	Lys	Ala	Leu
		180						185					190		
Lys	Asp	Glu	Val	Ile	Ala	Arg	Ile	Ala	Glu	Lys	His	Asn	Ala	Thr	Ala
	195						200					205			
Ala	Gln	Val	Ile	Leu	Ala	Trp	Ala	Met	Gly	Glu	Gly	Tyr	Ala	Val	Ile
	210					215					220				
Pro	Ser	Ser	Thr	Lys	Arg	Glu	Asn	Leu	Ala	Ser	Asn	Leu	Leu	Ala	Arg
225					230					235					240
Asp	Leu	Gln	Leu	Asp	Asp	Glu	Asp	Lys	Asn	Ala	Ile	Ala	Ala	Leu	Glu
			245						250					255	
Cys	Asn	Asp	Arg	Leu	Val	Ser	Pro	Glu	Gly	Leu	Ala	Pro	Asp	Trp	Asp
			260					265					270		

<210> 6544

<211> 291

<212> PRT

<213> Enterobacter cloacae

<400> 6544

Pro	Lys	Ile	Pro	Ile	Thr	Leu	Glu	Pro	Val	Arg	Phe	Pro	Gly	Trp	Phe
1				5					10					15	
Met	Leu	Gln	Arg	Ser	Phe	Pro	Lys	Val	Arg	Lys	Asn	Thr	Tyr	Ala	Met
			20					25					30		
Arg	Tyr	Val	Ala	Gly	Met	Pro	Ala	Glu	Arg	Ile	Leu	Pro	Pro	Gly	Ser
	35					40					45				
Phe	Ala	Ser	Leu	Gly	Gln	Ala	Leu	Pro	Ala	Gly	Thr	Pro	Leu	Ser	Ser
	50					55				60					
Asp	Glu	Lys	Ile	Arg	Val	Leu	Val	Trp	Asn	Ile	Phe	Lys	Gln	Gln	Arg
65				70					75					80	
Ala	Glu	Trp	Leu	Ser	Val	Leu	Gln	Asn	Phe	Gly	Lys	Asp	Ala	His	Leu
			85					90					95		
Val	Leu	Leu	Gln	Glu	Ala	Gln	Thr	Thr	Pro	Glu	Leu	Val	Arg	Phe	Ala
			100					105					110		
Thr	Thr	Asn	Tyr	Leu	Ala	Ala	Asp	Gln	Val	Pro	Ala	Phe	Val	Leu	Pro
		115					120					125			
Gln	His	Pro	Ser	Gly	Val	Met	Thr	Leu	Ser	Ala	Ala	His	Pro	Val	Tyr
	130					135					140				
Cys	Cys	Pro	Leu	Arg	Glu	Arg	Glu	Pro	Ile	Leu	Arg	Leu	Ala	Lys	Ser
145				150					155					160	
Ala	Leu	Val	Thr	Val	Tyr	Pro	Leu	Pro	Asp	Thr	Arg	Leu	Leu	Met	Val
			165					170					175		
Val	Asn	Ile	His	Ala	Val	Asn	Phe	Ser	Leu	Gly	Val	Asp	Val	Tyr	Ser
		180					185					190			
Lys	Gln	Leu	Leu	Pro	Ile	Gly	Asp	Gln	Ile	Ala	His	His	Ser	Gly	Pro
	195					200					205				
Ile	Ile	Met	Ala	Gly	Asp	Phe	Asn	Ala	Trp	Ser	Arg	Pro	Arg	Met	Asn
	210					215					220				

Ala Leu Tyr Arg Phe Ala Arg Glu Met Ser Leu Arg Glu Val Arg Phe
 225 230 235 240
 Asn Asp Asp Gln Arg Lys Lys Ala Phe Gly Arg Pro Leu Asp Phe Val
 245 250 255
 Phe Tyr Arg Gly Leu Ser Val His Asp Ala Ser Val Leu Val Thr Arg
 260 265 270
 Ala Ser Asp His Asn Pro Leu Leu Val Glu Phe Ser Pro Gly Lys Pro
 275 280 285
 Asp Lys
 290

<210> 6545

<211> 397

<212> PRT

<213> Enterobacter cloacae

<400> 6545

Arg Asp Gly Val Phe Met Pro Leu Ala Leu Leu Ala Leu Thr Ile Ser
 1 5 10 15
 Ala Phe Ala Ile Gly Thr Thr Glu Phe Val Ile Val Gly Leu Val Pro
 20 25 30
 Thr Ile Ala Glu Gln Leu Ala Ile Ser Leu Pro Ser Ala Gly Leu Leu
 35 40 45
 Val Ser Ile Tyr Ala Leu Gly Val Ala Val Gly Ala Pro Val Leu Thr
 50 55 60
 Ala Leu Thr Gly Arg Phe Ala Arg Lys Lys Leu Leu Val Ala Leu Met
 65 70 75 80
 Val Leu Phe Thr Ala Gly Asn Ile Leu Ala Trp Gln Ala Pro Asp Tyr
 85 90 95
 Thr Thr Leu Val Ile Ala Arg Leu Leu Thr Gly Leu Ala His Gly Val
 100 105 110
 Phe Phe Ser Ile Gly Ser Thr Ile Ala Thr Ser Leu Val Pro Lys Glu
 115 120 125
 Lys Ala Ala Ser Ala Ile Ala Ile Met Phe Gly Gly Leu Thr Val Ala
 130 135 140
 Leu Val Thr Gly Val Pro Leu Gly Thr Phe Ile Gly Gln His Phe Gly
 145 150 155 160
 Trp Arg Glu Thr Phe Leu Ala Val Ser Leu Leu Gly Val Ile Ala Met
 165 170 175
 Val Ala Ser Leu Leu Val Pro Ser Ser Ile Pro Gly Arg Ala Ser
 180 185 190
 Ala Ser Leu Ser Asp Gln Val Lys Val Leu Thr His Pro Arg Leu Leu
 195 200 205
 Leu Ile Tyr Ala Val Thr Ala Leu Gly Tyr Gly Gly Val Phe Thr Ala
 210 215 220
 Phe Thr Phe Leu Ala Pro Met Met Gln Glu Leu Ala Gly Phe Ser Pro
 225 230 235 240
 Gly Ala Val Ser Trp Ile Leu Leu Gly Tyr Gly Ile Ser Val Ala Ile
 245 250 255
 Gly Asn Ile Trp Gly Gly Lys Leu Ala Asp Lys His Gly Ala Val Pro
 260 265 270
 Ala Leu Lys Phe Ile Phe Ala Ala Leu Val Val Leu Leu Met Ile Phe
 275 280 285
 Gln Phe Thr Ala Ser Ile Gln Tyr Ala Ala Leu Val Thr Val Leu Val
 290 295 300
 Met Gly Ile Phe Ala Phe Gly Asn Val Pro Gly Leu Gln Val Tyr Val
 305 310 315 320
 Val Gln Lys Ala Glu Arg Tyr Thr Pro Asn Ala Val Asp Val Ala Ser
 325 330 335
 Gly Leu Asn Ile Ala Ala Phe Asn Ile Gly Ile Ala Leu Gly Ser Val
 340 345 350

Ile Gly Gly Gln Thr Val Glu His Val Gly Leu Thr Gln Thr Pro Trp
 355 360 365
 Ile Gly Ala Val Ile Val Leu Val Ala Phe Leu Leu Ile Gly Leu Ser
 370 375 380
 Gly Arg Leu Asp Lys Pro Ala Arg Val Ala Leu Gly
 385 390 395

<210> 6546

<211> 262

<212> PRT

<213> Enterobacter cloacae

<400> 6546

Lys Asp Ser Asn Met Thr Thr Thr His Ser His His Asp Asn Val Asp
 1 5 10 15
 Lys Gln Phe Gly Ser Gln Ala Ser Ala Tyr Leu Ser Ser Ala Val His
 20 25 30
 Ala Ser Gly Arg Asp Leu Val Arg Leu Gly Glu Arg Leu Ala Ala Phe
 35 40 45
 Pro Asp Ala His Val Leu Asp Leu Gly Cys Gly Ala Gly His Ala Ser
 50 55 60
 Phe Thr Ala Ala Glu Gln Val Ala Gln Val Thr Ala Tyr Asp Leu Ser
 65 70 75 80
 Ser Gln Met Leu Asp Val Val Ala Glu Ala Ala Lys Ala Lys Gly Leu
 85 90 95
 Asn Asn Val Thr Thr Arg Gln Gly Tyr Ala Glu Ser Leu Pro Phe Glu
 100 105 110
 Asp Ala Ser Phe Glu Val Val Ile Ser Arg Tyr Ser Ala His His Trp
 115 120 125
 His Asp Val Gly Gln Ala Leu Arg Glu Val Lys Arg Val Leu Lys Pro
 130 135 140
 Gly Gly Ile Phe Ile Ile Met Asp Val Met Ser Pro Gly His Pro Val
 145 150 155 160
 Arg Asn Ile Trp Leu Gln Thr Val Glu Ala Leu Arg Asp Thr Ser His
 165 170 175
 Val Gln Asn Tyr Ser Ser Gly Glu Trp Leu Thr Phe Ile Thr Glu Ala
 180 185 190
 Gly Leu Ile Ser Arg Ser Leu Ile Thr Asp Arg Leu Pro Leu Glu Phe
 195 200 205
 Ala Ser Trp Ile Ala Arg Met Arg Thr Pro Glu Ala Leu Thr Gln Ala
 210 215 220
 Ile Arg Leu Tyr Gln Glu Ser Ala Ser Ala Asp Val Lys Ala Tyr Phe
 225 230 235 240
 Glu Leu His Asp Asp Gly Ser Phe Thr Ser Asp Thr Ile Met Ala Glu
 245 250 255
 Ala Gln Lys Ala Gly
 260

<210> 6547

<211> 337

<212> PRT

<213> Enterobacter cloacae

<400> 6547

Pro Gly Cys Arg Leu Ser Lys Glu Ser Met Met Ser Ser Val Thr Thr
 1 5 10 15
 Ser Gly Ala Pro Lys Ser Ala Phe Ser Phe Gly Arg Ile Trp Asp Gln
 20 25 30
 Tyr Gly Met Leu Val Val Phe Ala Ala Leu Phe Val Ala Cys Ala Ile
 35 40 45
 Phe Val Pro Asn Phe Ala Thr Phe Ile Asn Met Lys Gly Leu Gly Leu

50		55		60											
Ala	Ile	Ser	Met	Ser	Gly	Met	Val	Ala	Cys	Gly	Met	Leu	Phe	Cys	Leu
65					70					75					80
Ala	Ser	Gly	Asp	Phe	Asp	Leu	Ser	Val	Ala	Ser	Val	Ile	Ala	Cys	Ala
				85					90					95	
Gly	Val	Thr	Thr	Ala	Val	Val	Ile	Asn	Met	Thr	Glu	Ser	Leu	Trp	Ile
			100					105					110		
Gly	Val	Leu	Ala	Gly	Leu	Leu	Leu	Gly	Val	Leu	Ser	Gly	Leu	Val	Asn
		115						120				125			
Gly	Phe	Val	Ile	Ala	Arg	Leu	Lys	Ile	Asn	Ala	Leu	Ile	Thr	Thr	Leu
	130					135					140				
Ala	Thr	Met	Gln	Ile	Val	Arg	Gly	Leu	Ala	Tyr	Ile	Ile	Ser	Asp	Gly
145					150					155					160
Lys	Ala	Val	Gly	Ile	Glu	Asp	Glu	Arg	Phe	Phe	Thr	Leu	Gly	Tyr	Ala
			165						170					175	
Asn	Trp	Leu	Gly	Leu	Pro	Ala	Pro	Ile	Trp	Leu	Thr	Val	Gly	Cys	Leu
		180						185					190		
Ile	Leu	Phe	Gly	Phe	Leu	Leu	Asn	Arg	Thr	Thr	Phe	Gly	Arg	Asn	Thr
	195						200					205			
Leu	Ala	Ile	Gly	Gly	Asn	Glu	Glu	Ala	Ala	Arg	Leu	Ala	Gly	Val	Pro
	210					215					220				
Val	Val	Arg	Thr	Lys	Ile	Ile	Ile	Phe	Val	Leu	Ser	Gly	Leu	Val	Ser
225				230						235					240
Ala	Ala	Ala	Gly	Ile	Ile	Leu	Ala	Ser	Arg	Met	Thr	Ser	Gly	Gln	Pro
			245						250					255	
Met	Thr	Ser	Ile	Gly	Tyr	Glu	Leu	Ile	Val	Ile	Ser	Ala	Cys	Val	Leu
		260						265					270		
Gly	Gly	Val	Ser	Leu	Lys	Gly	Gly	Ile	Gly	Lys	Ile	Ser	Tyr	Val	Val
	275						280					285			
Ala	Gly	Ile	Leu	Ile	Leu	Gly	Thr	Val	Glu	Asn	Ala	Met	Asn	Leu	Leu
	290					295					300				
Asn	Ile	Ser	Pro	Phe	Ser	Gln	Tyr	Val	Val	Arg	Gly	Leu	Ile	Leu	Leu
305				310						315					320
Ala	Ala	Val	Ile	Phe	Asp	Arg	Tyr	Lys	Gln	Lys	Ala	Lys	Arg	Thr	Val
				325					330					335	

<210> 6548

<211> 305

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (305)

<400> 6548

Pro	Ala	Gln	Leu	Leu	Thr	Ile	Val	Asp	Pro	Leu	Thr	Gly	Pro	Pro	Val
1				5					10					15	
Leu	Leu	Thr	Gly	Arg	Leu	Leu	Asn	Gly	Glu	His	Arg	His	Thr	Val	Tyr
		20						25					30		
Thr	Tyr	Met	Ala	Val	Leu	Phe	Thr	Val	Arg	Arg	Ile	Arg	Val	Ala	Asp
		35					40					45			
Leu	Leu	Thr	Ala	Pro	Pro	Val	Leu	Pro	Gly	Lys	Phe	Ala	Phe	Phe	Phe
	50					55					60				
Asp	Leu	Asp	Gly	Thr	Leu	Ala	Gly	Ile	Glu	Pro	His	Pro	Asp	Asp	Val
65					70					75					80
Val	Val	Pro	Asp	Thr	Val	Leu	Glu	Asn	Leu	Gln	Gln	Leu	Ser	Arg	Gln
			85						90					95	
Asn	Glu	Gly	Ala	Leu	Ala	Leu	Ile	Ser	Gly	Arg	Ser	Met	Ala	Glu	Leu

100 105 110
 Asp Val Leu Ala Ser Pro Tyr His Phe Pro Leu Ala Gly Val His Gly
 115 120 125
 Ala Glu Arg Arg Asp Ile His Asp Gln Leu His Ile Val Ser Leu Pro
 130 135 140
 Asp Thr Leu Ile Gln Thr Leu His Ala Gln Leu Ser Ser Ala Leu Glu
 145 150 155 160
 Met Leu Pro Gly Thr Glu Leu Glu Ala Lys Gly Met Ala Phe Ala Leu
 165 170 175
 His Tyr Arg Gln Ala Pro His His Glu Ala Ala Ile Phe Ser Ile Ala
 180 185 190
 Arg Ser Val Ala Glu Ala His Pro Glu Leu Ala Leu Gln Pro Gly Lys
 195 200 205
 Cys Val Val Glu Ile Lys Pro Ala Gly Ile Asn Lys Gly Ala Ala Ile
 210 215 220
 Ala Ala Phe Met Ala Glu Ala Pro Phe Lys Gly Arg Thr Pro Val Phe
 225 230 235 240
 Phe Gly Asp Asp Leu Thr Asp Glu Ala Gly Phe Arg Val Val Asn Gln
 245 250 255
 Ala Gln Gly Met Ser Val Lys Val Gly Ser Gly Glu Thr Ile Ala Gly
 260 265 270
 Trp Arg Leu Glu Asn Val Ala Ser Val Trp Gln Trp Ile Ser Asp Val
 275 280 285
 Ala Asn Gln Gln Gln Leu Phe Thr Thr Asp Cys Arg Pro Ala His Met
 290 295 300
 Xaa
 305

<210> 6549

<211> 140

<212> PRT

<213> Enterobacter cloacae

<400> 6549

Lys Ala Cys Gly Gln Thr Thr Ala Gln Arg Leu Lys Thr Ser His Arg
 1 5 10 15
 Val Arg Cys Ser Asp Lys Lys Thr Cys Phe Gly Arg Phe Phe Tyr Val
 20 25 30
 Cys Gly Arg Arg Glu Gly Asp Gly Arg Ala Ser Val Leu Leu Trp
 35 40 45
 Arg Pro Leu Asn Lys Glu Asn Pro Met Ser Gln Asn Leu Ser Ala Asp
 50 55 60
 Gln Glu Leu Val Ser Asp Val Val Ala Cys Gln Leu Val Ile Lys Gln
 65 70 75 80
 Ile Leu Asp Val Ile Asp Val Ile Ala Pro Val Glu Val Arg Glu Lys
 85 90 95
 Met Ser Thr Gln Leu Lys Asn Ile Asp Phe Thr Asn His Pro Ala Ala
 100 105 110
 Ala Asp Pro Val Thr Leu Arg Ala Ile Gln Lys Ala Ile Ala Leu Ile
 115 120 125
 Glu Leu Arg Phe Thr Pro Gln Gly Glu Ser His
 130 135 140

<210> 6550

<211> 203

<212> PRT

<213> Enterobacter cloacae

<400> 6550

Arg Glu Lys Met Lys Arg Cys Phe Thr Leu Phe His Ser Leu Arg Phe
 1 5 10 15

Met Met Ala Asn Val Ala Val Leu Leu Ala Pro Gly Phe Glu Glu Ala
 20 25 30
 Glu Ala Ile Ile Thr Ile Asp Ile Leu Arg Arg Leu Gln Ile Glu Val
 35 40 45
 Glu Thr Leu Ala Cys Ala Glu Ser Arg Ala Val Val Ser Tyr His Asn
 50 55 60
 Ile Pro Met Val Ala Asp Ser Thr Leu Thr Glu Arg Ile Asn Arg Leu
 65 70 75 80
 Tyr Asp Ala Val Val Leu Pro Gly Gly Pro Gln Gly Ser Val Asn Leu
 85 90 95
 Ala Ala Asn Gln Glu Val Ile Arg Phe Val Ser Ala His Asp Glu His
 100 105 110
 Gly Lys Leu Ile Cys Pro Ile Cys Ser Ala Ala Ala Arg Val Leu Gly
 115 120 125
 Gly Asn Gly Leu Leu Lys Gly Arg Arg Tyr Val Cys Ser Gly Asp Leu
 130 135 140
 Trp Gln Ser Val Asp Asp Gly Val Tyr Val Asp Ala Pro Val Val Glu
 145 150 155 160
 Asp Asn Asn Leu Ile Ser Gly Lys Gly Leu Gly His Ala Phe Asp Phe
 165 170 175
 Ala Leu Thr Leu Ser Ala Arg Leu Leu Gly Val Asp Ser Pro Val Arg
 180 185 190
 Asp His Ala Glu His Ile Tyr Tyr Arg Trp
 195 200

<210> 6551

<211> 518

<212> PRT

<213> Enterobacter cloacae

<400> 6551

Gly Ala Arg Arg Thr His Tyr Arg Asn His Gly Val Val Met Gln Gln
 1 5 10 15
 Ser Asp Pro Tyr Leu Ser Phe Arg Gly Ile Gly Lys Thr Phe Pro Gly
 20 25 30
 Val Asn Ala Leu Thr Asp Ile Ser Phe Asp Cys Tyr Ala Gly Gln Val
 35 40 45
 His Ala Leu Met Gly Glu Asn Gly Ala Gly Lys Ser Thr Leu Leu Lys
 50 55 60
 Ile Leu Ser Gly Asn Tyr Thr Pro Thr Thr Gly Thr Leu Ala Ile Arg
 65 70 75 80
 Gly Glu Glu Val Ala Phe Ala Asp Thr Thr Ala Ala Leu Asn Ala Gly
 85 90 95
 Val Ala Ile Ile Tyr Gln Glu Leu His Leu Ile Pro Glu Met Thr Val
 100 105 110
 Ala Glu Asn Ile Tyr Leu Gly Gln Leu Pro His Lys Ser Gly Val Val
 115 120 125
 Asn Arg Ser Leu Leu Asn Tyr Glu Ala Gly Leu Gln Leu Lys His Leu
 130 135 140
 Gly Leu Asp Val Asp Pro Gln Thr Pro Leu Lys Tyr Leu Ser Ile Gly
 145 150 155 160
 Gln Trp Gln Met Val Glu Ile Ala Lys Ala Leu Ala Arg Asn Ala Lys
 165 170 175
 Ile Ile Ala Phe Asp Glu Pro Thr Ser Ser Leu Ser Ala Arg Glu Ile
 180 185 190
 Glu Asn Leu Phe Arg Val Ile Arg Glu Leu Arg Lys Glu Gly Arg Ile
 195 200 205
 Ile Leu Tyr Val Ser His Arg Met Glu Glu Ile Phe Ala Leu Ser Asp
 210 215 220
 Ala Ile Thr Val Phe Lys Asp Gly Arg Tyr Val Arg Thr Phe Thr Asp
 225 230 235 240

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Met Gln Gln Val Asn His Asp Gln Leu Val Gln Ala Met Val Gly Arg
      245      250      255
Asp Leu Gly Asp Ile Tyr His Trp Lys Pro Arg Glu Tyr Gly Pro Glu
      260      265      270
Arg Leu Arg Leu Asp Asn Val Lys Ala Pro Gly Val Arg Thr Pro Ile
      275      280      285
Ser Leu Ser Val Arg Ser Gly Glu Ile Val Gly Leu Phe Gly Leu Val
      290      295      300
Gly Ala Gly Arg Ser Glu Leu Met Lys Gly Leu Phe Gly Gly Thr Arg
305      310      315      320
Ile Thr Gln Gly Gln Val Phe Val Asp Gly Lys Lys Val Asp Ile Gln
      325      330      335
Lys Pro Ala Gln Ala Ile Asn Ala Gly Ile Met Leu Cys Pro Glu Asp
      340      345      350
Arg Lys Ala Glu Gly Ile Ile Pro Val His Ser Val Arg Asp Asn Ile
      355      360      365
Asn Ile Ser Ala Arg Arg Lys Phe Ile Arg Ala Gly Cys Leu Ile Asn
      370      375      380
Asp Gly Trp Glu Ala Ser Asn Ala Asp His His Ile Arg Ser Leu Asn
385      390      395      400
Ile Lys Thr Pro Gly Ala Glu Gln Leu Ile Met Asn Leu Ser Gly Gly
      405      410      415
Asn Gln Gln Lys Ala Ile Leu Gly Arg Trp Leu Ser Glu Asp Met Lys
      420      425      430
Val Ile Leu Leu Asp Glu Pro Thr Arg Gly Ile Asp Val Gly Ala Lys
      435      440      445
His Glu Ile Tyr Asn Val Ile Tyr Glu Leu Ala Lys Arg Gly Val Ala
      450      455      460
Val Leu Phe Ala Ser Ser Asp Leu Pro Glu Val Leu Gly Val Ala Asp
465      470      475      480
Arg Ile Val Val Met Arg Glu Gly Glu Ile Ala Gly Glu Leu Leu His
      485      490      495
Glu Gln Ala Asn Glu Gln Gln Ala Leu Ser Leu Ala Met Pro Lys Val
      500      505      510
Ser Gln Ala Val Ala
      515

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<210> 6552

<211> 347

<212> PRT

<213> Enterobacter cloacae

<400> 6552

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Val Val Arg His Tyr Ser Leu Gln Ile Arg Met Leu Lys Leu Glu Phe
1      5      10      15
Thr Met His Lys Phe Thr Lys Ala Leu Ala Ala Ile Gly Leu Ala Ala
      20      25      30
Val Met Ser Gln Ser Ala Ile Ala Glu Asn Leu Lys Leu Gly Phe Leu
      35      40      45
Val Lys Gln Pro Glu Glu Pro Trp Phe Gln Thr Glu Trp Lys Phe Ala
      50      55      60
Asp Lys Ala Gly Lys Asp Leu Gly Phe Glu Val Ile Lys Ile Ala Val
65      70      75      80
Pro Asp Gly Glu Lys Thr Leu Asn Ala Ile Asp Ser Leu Ala Ala Ser
      85      90      95
Gly Ala Lys Gly Phe Val Ile Cys Thr Pro Asp Pro Lys Leu Gly Ser
      100      105      110
Ala Ile Ala Ala Lys Ala Arg Gly Tyr Asp Met Lys Val Ile Ala Val
      115      120      125
Asp Asp Gln Phe Val Asn Ala Lys Gly Lys Pro Met Asp Thr Val Pro
130      135      140

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Leu Val Met Met Ala Ala Thr Lys Ile Gly Glu Arg Gln Gly Gln Glu
 145 150 155 160
 Leu Tyr Lys Glu Met Gln Lys Arg Gly Trp Asp Val Lys Glu Thr Ala
 165 170 175
 Val Met Ala Ile Thr Ala Asp Glu Leu Asp Thr Ala Arg Arg Arg Thr
 180 185 190
 Thr Gly Ser Met Asp Ala Leu Lys Ala Ala Gly Phe Pro Glu Lys Gln
 195 200 205
 Ile Tyr Lys Val Pro Thr Lys Ser Asn Asp Ile Pro Gly Ala Phe Asp
 210 215 220
 Ala Ala Asn Ser Met Leu Val Gln His Pro Glu Val Lys His Trp Leu
 225 230 235 240
 Val Val Gly Met Asn Asp Asn Thr Val Leu Gly Gly Val Arg Ala Thr
 245 250 255
 Glu Gly Gln Gly Phe Lys Ala Pro Asp Val Ile Gly Ile Gly Ile Asn
 260 265 270
 Gly Val Asp Ala Val Ser Glu Leu Ser Lys Ala Gln Ala Thr Gly Phe
 275 280 285
 Tyr Gly Ser Leu Leu Pro Ser Pro Asp Val His Gly Tyr Lys Ser Ser
 290 295 300
 Glu Met Leu Tyr Asn Trp Val Thr Lys Gly Ala Glu Pro Pro Lys Phe
 305 310 315 320
 Thr Glu Val Thr His Val Val Leu Ile Thr Arg Asp Asn Phe Lys Glu
 325 330 335
 Glu Leu Ala Lys Lys Gly Leu Gly Gly Lys
 340 345

<210> 6553

<211> 180

<212> PRT

<213> Enterobacter cloacae

<400> 6553

Arg Thr Ser Ser Pro Thr Val Asn Lys Asp Met Arg Met Thr Thr His
 1 5 10 15
 Thr Met Met Gln Lys Leu Asn Ala Gln Met Asn Leu Glu Phe Tyr Ala
 20 25 30
 Ser Asn Leu His Leu His Leu Ser Ala Trp Cys Ser Arg Lys Ser Leu
 35 40 45
 Asn Gly Thr Ala Thr Phe Phe Arg Thr Gln Ala Gln Ser Asn Val Thr
 50 55 60
 His Met Met Arg Val Phe Asn Phe Leu Lys Ala Val Gly Ala Asn Pro
 65 70 75 80
 Thr Val Lys Glu Leu Glu Thr Ile Glu Asp Asn Tyr Thr Ser Leu Glu
 85 90 95
 Glu Leu Phe Gln Lys Thr Leu Glu Glu Tyr Glu Gln Arg Cys Ala Lys
 100 105 110
 Leu Ser Lys Leu Ala Asp Glu Ala Lys Ala Gln Gln Asp Ile Ile Thr
 115 120 125
 Leu Thr Phe Leu Arg Asp Met Asp Arg Glu Gln Gln Gln Asp Gly Met
 130 135 140
 Leu Leu Lys Thr Leu Ala Asp Glu Ile Arg Asn Ala Lys Arg Ala Gly
 145 150 155 160
 Ile Cys Leu Glu Gln Thr Asp Arg His Leu Leu Asp Ile Ala Thr Val
 165 170 175
 Gln His His
 180

<210> 6554

<211> 452

<212> PRT

<213> Enterobacter cloacae

<400> 6554

Arg Gly Ser Ile Met Ile Thr Ile Glu Phe Ile Val Ile Ile Leu Cys
 1 5 10 15
 Leu Leu Ile Gly Thr Arg Phe Gly Gly Met Gly Leu Gly Leu Ile Ser
 20 25 30
 Gly Ile Gly Leu Phe Ile Leu Ser Phe Val Phe Gly Leu Gln Pro Gly
 35 40 45
 Lys Pro Pro Val Asp Val Met Leu Thr Ile Leu Ala Val Ile Gly Cys
 50 55 60
 Ala Ala Thr Leu Gln Thr Ala Gly Gly Leu Asn Val Met Met Gln Phe
 65 70 75 80
 Ala Glu Arg Leu Leu Arg Lys His Pro Gln His Ile Thr Leu Leu Ala
 85 90 95
 Pro Phe Thr Thr Trp Met Leu Thr Phe Leu Cys Gly Thr Gly His Val
 100 105 110
 Val Tyr Thr Met Phe Pro Ile Ile Ala Asp Ile Ala Leu Lys Lys Gly
 115 120 125
 Ile Arg Pro Glu Arg Pro Met Ala Val Ala Ser Val Ala Ser Gln Met
 130 135 140
 Ala Ile Thr Ala Ser Pro Val Ser Val Ala Val Val Ser Leu Val Ser
 145 150 155 160
 Ile Leu Gly Ala Gln His Gly Ile Gly His Ala Trp Gly Ile Leu Glu
 165 170 175
 Ile Leu Ala Val Ser Val Pro Ala Ser Leu Ser Gly Val Ala Ile Ala
 180 185 190
 Ala Leu Trp Ser Leu Arg Arg Gly Lys Asn Leu Ala Asp Asp Thr Glu
 195 200 205
 Phe Gln Glu Lys Leu Lys Asp Pro Lys Gln Arg Glu Phe Ile Tyr Gly
 210 215 220
 Gly Thr Glu Thr Leu Met Asp Gln Arg Phe Pro Lys Gln Ala Tyr Trp
 225 230 235 240
 Ser Thr Trp Ile Phe Phe Ala Gly Ile Ala Val Val Val Leu Leu Gly
 245 250 255
 Ala Leu Pro Glu Leu Arg Pro Ala Phe Glu Ile Lys Gly Lys Met Thr
 260 265 270
 Ala Leu Ser Met Asn Leu Val Ile Gln Met Met Met Leu Ile Ala Gly
 275 280 285
 Ala Ile Met Leu Met Thr Cys Lys Val Asn Ala Ser Ala Ile Ser Asn
 290 295 300
 Gly Ala Val Phe Lys Ala Gly Met Val Ala Ile Phe Ser Val Phe Gly
 305 310 315 320
 Val Ala Trp Met Ser Asp Thr Phe Phe Gln Ala His Leu Asp Glu Leu
 325 330 335
 Lys Met Ala Leu Glu Gly Val Val Lys Ser His Pro Trp Thr Tyr Ala
 340 345 350
 Ile Val Leu Phe Leu Val Ser Lys Leu Val Asn Ser Gln Ala Ala Ala
 355 360 365
 Leu Thr Ala Val Ala Pro Met Gly Leu Met Leu Gly Ile Asp Pro Lys
 370 375 380
 Met Leu Val Ala Phe Phe Pro Ala Ser Tyr Gly Tyr Phe Val Leu Pro
 385 390 395 400
 Thr Tyr Pro Ser Asp Leu Ala Cys Ile Gly Phe Asp Arg Ser Gly Thr
 405 410 415
 Thr Arg Ile Gly Lys Phe Ile Ile Asn His Ser Phe Ile Leu Pro Gly
 420 425 430
 Leu Ile Gly Val Ser Cys Ala Cys Val Val Ser Tyr Leu Leu Val Gln
 435 440 445
 Thr Phe Phe
 450

<211> 422

<213> Enterobacter cloacae

Ala 1	Gly	Arg	Lys	Arg 5	Met	Ser	Glu	Asn	Val 10	Ser	Gly	Lys	Glu	Ser 15	Arg
Gly	Leu	Ser	Pro 20	Ala	Ala	Leu	Leu	Val 25	Ala	Gly	Ala	Phe	Phe	Met 30	Glu
Phe	Leu	Asp 35	Gly	Thr	Val	Ile	Ala 40	Thr	Ala	Leu	Pro	Asp 45	Met	Ala	Lys
Ser	Phe 50	Gly	Val	Gln	Ala	Val 55	Asp	Leu	Asn	Ile	Gly 60	Ile	Ser	Ala	Tyr
Leu 65	Ile	Thr	Leu	Ala	Val 70	Leu	Ile	Pro	Ala	Ser 75	Gly	Trp	Ile	Ala	Asp 80
Arg	Phe	Gly	Ala	Arg 85	Lys	Val	Phe	Ala	Leu 90	Ala	Leu	Ala	Ile	Phe 95	Thr
Leu	Ala	Ser	Val 100	Phe	Cys	Gly	Leu	Ser 105	Thr	Thr	Leu	Asp	Gln	Phe	Val
Ala	Met	Arg 115	Val	Leu	Gln	Gly	Met 120	Gly	Gly	Ala	Leu	Met 125	Val	Pro	Val
Gly	Arg 130	Leu	Ala	Val	Leu	Arg 135	Thr	Thr	Pro	Lys	His 140	Gln	Leu	Ile	Thr
Ala 145	Ile	Ala	Thr	Leu	Thr 150	Trp	Pro	Ala	Leu	Val 155	Ala	Pro	Ile	Ile	Gly 160
Pro	Pro	Leu	Gly	Gly 165	Phe	Ile	Thr	Ser	Tyr 170	Ala	Asp	Trp	Arg	Trp 175	Ile
Phe	Phe	Ile	Asn 180	Val	Pro	Leu	Gly	Ile 185	Ile	Ala	Ile	Leu	Leu	Ala	Leu
Arg	Ile	Ile 195	Pro	Asp	Leu	His	Glu 200	Asp	Thr	Arg	Arg	Pro 205	Phe	Asp	Leu
Pro	Gly 210	Phe	Val	Val	Thr	Thr 215	Leu	Ala	Met	Val	Ser 220	Leu	Val	Tyr	Ala
Met 225	Glu	Leu	Met	Gly	Ala	Glu 230	Pro	Leu	Arg	Thr 235	Gly	Leu	Thr	Ala	Thr 240
Leu	Phe	Ile	Val	Gly 245	Ile	Val	Ala	Leu	Ser 250	Leu	Ala	Leu	Arg	His 255	Phe
Lys	Arg	Thr	Thr 260	Trp	Pro	Met	Ile	Arg 265	Leu	Asp	Ala	Met	Gln	Val	Pro
Thr	Phe	Arg 275	Val	Thr	Leu	Tyr	Gly 280	Gly	Ser	Leu	Phe	Arg 285	Ala	Ser	Ile
Ser	Ala 290	Val	Pro	Phe	Leu	Leu 295	Pro	Leu	Met	Phe	Gln	Val	Gly	Phe	Gly
Met 305	Asp	Ala	Phe	His	Ser	Gly 310	Leu	Leu	Val	Leu	Ala	Val	Phe	Val	Gly 320
Asn	Leu	Thr	Ile	Lys 325	Pro	Ala	Thr	Thr	Pro 330	Leu	Ile	Arg	Ser	Leu	Gly 335
Phe	Lys	Arg	Leu 340	Leu	Leu	Ile	Asn	Gly 345	Ala	Leu	Asn	Val	Leu	Ala	Leu
Leu	Ala	Cys 355	Ala	Phe	Leu	Thr	Pro 360	Gln	Thr	Pro	Ala	Trp	Leu	Val	Met
Leu	Ile	Leu	Tyr	Leu	Gly	Gly 375	Val	Phe	Arg	Ser	Ile	Gln	Phe	Thr	Ala
Ile 385	Ser	Thr	Leu	Ala	Phe	Ala 390	Asp	Val	Pro	Ser 395	Val	Gln	Met	Cys	Tyr 400
Ala	Asn	Ile	Leu	Phe 405	Ser	Thr	Ala	Thr	Gln	Arg	Leu	Asp	His	Gly	Ala
Gly	Ala	Ser	Ala 420	Cys	Gly				410					415	

<210> 6556
 <211> 80
 <212> PRT
 <213> Enterobacter cloacae

<400> 6556
 Leu Thr Leu Arg Cys Glu Ala Glu Phe Asn Gln Arg Asn Arg Phe Leu
 1 5 10 15
 Asp Arg Ala Glu Arg Asn Arg Val Arg Arg Ser Arg Met Val Gly Glu
 20 25 30
 Ile Asp Val Phe Gln Leu Gly Arg His Leu Phe Ala Tyr Leu Asn Arg
 35 40 45
 Arg Asp Asn Val Asn His Ile Lys Asp Leu Phe Asp Asn Gln Leu Ala
 50 55 60
 Gly Asp Asp Val Arg Tyr Gln Phe Leu Ile Gly Ala Gln Val Leu
 65 70 75 80

<210> 6557
 <211> 212
 <212> PRT
 <213> Enterobacter cloacae

<400> 6557
 Ser Pro Ser Arg Gly Glu Lys Pro Leu Asp Ile Ser Ser Thr His Tyr
 1 5 10 15
 Leu Asp Ile Asn His Ala Asp Ile Val Ala Arg Ile Asp Leu Thr Glu
 20 25 30
 Trp Glu Thr Asn Pro Glu Ser Thr Arg Tyr Leu Thr Phe Leu Lys Gly
 35 40 45
 Arg Val Gly Arg Lys Val Ala Asp Phe Phe Met Asp Phe Leu Gly Ala
 50 55 60
 Ser Glu Gly Leu Asn Ala Lys Ala Gln Asn Lys Gly Leu Leu Gln Ala
 65 70 75 80
 Val Asp Asp Phe Thr Ala Glu Ala Gln Leu Asp Lys Ser Glu Arg Gln
 85 90 95
 Asn Val Arg Gln Gln Val Tyr Ser Tyr Cys Asn Glu Gln Leu Gln Ala
 100 105 110
 Gly Glu Glu Ile Glu Leu Glu Ser Leu Ser Lys Glu Leu Ala Gly Val
 115 120 125
 Ser Glu Val Ser Phe Gln Glu Phe Thr Ala Glu Lys Gly Tyr Glu Leu
 130 135 140
 Glu Glu Ser Phe Pro Ala Asp Arg Ser Thr Leu Arg Gln Leu Thr Lys
 145 150 155 160
 Phe Ala Gly Ser Gly Gly Gly Leu Thr Ile Asn Phe Asp Ala Met Leu
 165 170 175
 Leu Gly Glu Arg Ile Phe Trp Asp Pro Ala Thr Asp Thr Leu Thr Ile
 180 185 190
 Lys Gly Thr Pro Pro Asn Leu Arg Asp Gln Leu Gln Arg Arg Thr Ser
 195 200 205
 Gly Gly Lys
 210

<210> 6558
 <211> 239
 <212> PRT
 <213> Enterobacter cloacae

<400> 6558
 Lys Asp Phe Met Arg Leu Asp Lys Phe Ile Ala Gln Gln Leu Gly Val
 1 5 10 15

Ser Arg Ala Ile Ala Gly Arg Glu Ile Arg Ala Ser Arg Val Thr Val
 20 25 30
 Asp Gly Asp Ile Val Lys Asp Ser Ala Phe Lys Leu Gln Pro Glu His
 35 40 45
 Gln Val Glu Tyr Asp Gly Asn Pro Leu Thr Gln Gln Asn Gly Pro Arg
 50 55 60
 Tyr Phe Met Leu Asn Lys Pro Glu Gly Tyr Val Cys Ser Thr Asp Asp
 65 70 75 80
 Pro Asp His Pro Thr Val Leu Tyr Phe Leu Asp Glu Pro Val Ala His
 85 90 95
 Lys Leu His Ala Ala Gly Arg Leu Asp Ile Asp Thr Thr Gly Leu Val
 100 105 110
 Leu Met Thr Asp Asp Gly Gln Trp Ser His Arg Ile Thr Ser Pro Arg
 115 120 125
 His His Cys Glu Lys Thr Tyr Arg Val Thr Leu Glu Ser Pro Val Ser
 130 135 140
 Asp Asp Thr Ala Glu Gln Phe Ala Lys Gly Val Gln Leu His Asn Glu
 145 150 155 160
 Lys Asp Leu Thr Lys Pro Ala Val Leu Glu Ile Ile Thr Pro Thr Asp
 165 170 175
 Val Arg Leu Thr Ile Ser Glu Gly Arg Tyr His Gln Val Lys Arg Met
 180 185 190
 Phe Ala Ala Val Gly Asn His Val Val Gly Leu His Arg Glu Arg Ile
 195 200 205
 Gly Ala Ile Glu Leu Asp Pro Asp Leu Ala Pro Gly Glu Tyr Arg Pro
 210 215 220
 Leu Thr Glu Glu Glu Ile Ala Ser Val Gly Leu Pro Ser Arg
 225 230 235

<210> 6559

<211> 405

<212> PRT

<213> Enterobacter cloacae

<400> 6559

Ile Gln Glu Asn Ser Val Thr Thr Arg Pro His Ser Ser Phe Lys Ile
 1 5 10 15
 Val Phe Ile Leu Gly Leu Leu Ala Met Leu Met Pro Leu Ser Ile Asp
 20 25 30
 Met Tyr Leu Pro Ala Leu Pro Val Ile Ser Ala Gln Phe Gly Val Pro
 35 40 45
 Ala Gly Ser Ala Gln Met Thr Leu Ser Thr Tyr Ile Leu Gly Phe Ala
 50 55 60
 Leu Gly Gln Leu Phe Tyr Gly Pro Met Ala Asp Ser Leu Gly Arg Lys
 65 70 75 80
 Pro Val Ile Leu Gly Gly Thr Leu Ile Phe Ala Ala Ala Val Ala
 85 90 95
 Cys Ala Leu Ala Gln Ser Ile Asp Gln Leu Ile Val Met Arg Phe Phe
 100 105 110
 His Gly Leu Ala Ala Ala Ala Ser Val Val Ile Asn Ala Leu Met
 115 120 125
 Arg Asp Val Tyr Pro Lys Glu Glu Phe Ser Arg Met Met Ser Phe Val
 130 135 140
 Met Leu Val Thr Thr Ile Ala Pro Leu Val Ala Pro Met Val Gly Gly
 145 150 155 160
 Ala Val Leu Val Trp Phe Ser Trp His Ala Ile Phe Trp Ile Leu Ala
 165 170 175
 Ile Ala Ala Leu Leu Ala Ser Val Met Ile Phe Val Phe Ile Asp Glu
 180 185 190
 Thr Leu Pro Val Glu Arg Arg Gln Lys Phe His Val Arg Thr Thr Leu
 195 200 205

Gly Asn Phe Ala Ser Leu Phe Arg His Lys Arg Val Leu Ser Tyr Met
 210 215 220
 Leu Ala Ser Gly Phe Ser Phe Ala Gly Met Phe Ser Phe Leu Ser Ala
 225 230 235 240
 Gly Pro Phe Val Tyr Ile Glu Leu Asn His Val Ser Pro Gln His Phe
 245 250 255
 Gly Tyr Tyr Phe Ala Leu Asn Ile Val Phe Leu Phe Val Met Thr Ile
 260 265 270
 Ile Asn Ser Arg Phe Val Arg Arg Val Gly Ala Leu Asn Met Phe Arg
 275 280 285
 Ala Gly Leu Trp Ile Gln Phe Val Met Ala Ile Trp Leu Val Leu Ser
 290 295 300
 Ala Leu Leu Gly Val Gly Phe Trp Ala Leu Val Val Gly Val Ala Ala
 305 310 315 320
 Phe Val Gly Cys Val Ser Met Val Ser Ser Asn Ala Met Ala Val Ile
 325 330 335
 Leu Asp Glu Phe Pro His Met Ala Gly Thr Ala Ser Ser Leu Ala Gly
 340 345 350
 Thr Phe Arg Phe Gly Ile Gly Ala Ile Val Gly Ala Leu Leu Ser Thr
 355 360 365
 Ala Thr Phe Asn Thr Ala Trp Pro Met Leu Trp Ala Ile Ala Leu Cys
 370 375 380
 Ala Thr Cys Ser Ile Leu Phe Tyr Leu Tyr Ala Ser Arg Pro Arg Lys
 385 390 395 400
 Thr Ala His Lys
 405

<210> 6560

<211> 124

<212> PRT

<213> Enterobacter cloacae

<400> 6560

Ser Lys Phe Ala Ser Gly Asp Leu Asn Val Asn Thr Leu Gln Leu Ser
 1 5 10 15
 Ile Val His Arg Leu Pro Gln Ser Tyr Arg Trp Ser Thr Gly Phe Ala
 20 25 30
 Gly Ser Lys Val Glu Pro Ile Pro Gln Ser Val Ala Gly Glu Asp Asn
 35 40 45
 Cys Leu Val Ala Leu Lys Leu Leu Ser Pro Ser Asp Glu Asn Ala Trp
 50 55 60
 Pro Val Met Glu Arg Leu Ser Gln Ala Leu Thr Asp Ile Glu Val Asp
 65 70 75 80
 Ser Ser Val Leu Glu Cys Glu Gly Glu Pro Cys Leu Phe Val Asn Ser
 85 90 95
 Gln Asp Glu Phe Ala Ala Thr Cys Arg Leu Lys Asn Phe Gly Val Ala
 100 105 110
 Ile Ala Glu Pro Phe Ser Gly Gln Tyr Pro Phe
 115 120

<210> 6561

<211> 133

<212> PRT

<213> Enterobacter cloacae

<400> 6561

Lys Arg Met Glu Gln Val Ala Gln Arg Ala Ile Ala His Ser Ile Gly
 1 5 10 15
 Gln Ala Val Leu Asn Val Ala Val Glu Ser Ser Ala Pro Thr Ile Ala
 20 25 30
 Pro Ile Pro Lys Arg Asn Val Pro Ala Ser Asp Glu Ala Val Pro Ala

	35		40		45	
Ile	Cys	Gly	Asn	Ser	Ser	Arg
	50				55	Ile
Ile	Asp	Thr	Gln	Pro	Thr	Asn
65				70		Ala
Lys	Pro	Thr	Pro	Ser	Asn	Ala
			85			Leu
Asn	Trp	Ile	His	Ser	Pro	Ala
			100			Arg
Arg	Thr	Lys	Arg	Leu	Leu	Ile
	115				120	Met
Phe	Ser	Ala	Lys			Val
	130					Ile

<210> 6562

<211> 592

<212> PRT

<213> Enterobacter cloacae

<400> 6562

Leu	Asn	Arg	Glu	Ala	Met	Thr	Phe	Thr	Leu	Arg	Pro	Tyr	Gln	Gln	Glu
1				5					10					15	
Ala	Val	Asp	Ala	Thr	Leu	Ala	Trp	Phe	Arg	Lys	His	Arg	Glu	Pro	Ala
			20					25					30		
Ala	Ile	Val	Leu	Pro	Thr	Gly	Ala	Gly	Lys	Ser	Leu	Val	Ile	Ala	Glu
		35					40					45			
Leu	Ala	Arg	Leu	Ala	Arg	Gly	Arg	Val	Leu	Val	Leu	Ala	His	Val	Lys
	50					55					60				
Glu	Leu	Val	Ala	Gln	Asn	His	Ala	Lys	Tyr	Cys	Ala	Leu	Gly	Leu	Glu
65					70					75					80
Ala	Asp	Ile	Phe	Ala	Ala	Gly	Leu	Lys	Arg	Lys	Glu	Ser	His	Gly	Lys
			85					90						95	
Val	Val	Phe	Gly	Ser	Val	Gln	Ser	Val	Ala	Arg	Asn	Leu	Glu	Leu	Phe
		100						105					110		
Arg	Ser	Glu	Phe	Ser	Leu	Leu	Ile	Val	Asp	Glu	Cys	His	Arg	Ile	Ser
	115						120					125			
Asp	Asp	Asp	Asp	Ser	Gln	Tyr	Gln	Gln	Ile	Leu	Thr	His	Leu	Lys	Lys
	130					135					140				
Val	Asn	Pro	His	Leu	Arg	Leu	Leu	Gly	Leu	Thr	Ala	Thr	Pro	Phe	Arg
145					150					155					160
Leu	Gly	Lys	Gly	Trp	Ile	Tyr	Gln	Phe	His	Tyr	His	Gly	Met	Val	Arg
			165					170						175	
Gly	Asp	Glu	Lys	Ala	Leu	Phe	Arg	Asp	Cys	Ile	Tyr	Glu	Leu	Pro	Leu
		180					185					190			
Arg	Tyr	Met	Ile	Lys	His	Gly	Tyr	Leu	Thr	Pro	Pro	Glu	Arg	Leu	Asp
	195						200					205			
Met	Pro	Val	Val	Gln	Tyr	Asp	Phe	Ser	Arg	Leu	Gln	Ala	Gln	Ser	Asn
	210					215					220				
Gly	Leu	Phe	Ser	Glu	Ala	Asp	Leu	Asn	His	Glu	Leu	Lys	Lys	Gln	Lys
225					230					235					240
Arg	Ile	Thr	Pro	His	Ile	Ile	Ser	Gln	Ile	Glu	Glu	Phe	Ala	Gln	Thr
			245						250					255	
Arg	Lys	Gly	Val	Met	Ile	Phe	Ala	Ala	Thr	Val	Glu	His	Ala	Arg	Glu
		260					265						270		
Ile	Thr	Gly	Leu	Leu	Pro	Ala	Asp	Asp	Ala	Ala	Leu	Ile	Thr	Gly	Glu
	275						280					285			
Thr	Pro	Gly	Pro	Glu	Arg	Asp	Ser	Leu	Ile	Glu	Asp	Phe	Lys	Ala	Gln
	290					295					300				
Arg	Phe	Arg	Tyr	Leu	Val	Asn	Val	Ser	Val	Leu	Thr	Thr	Gly	Phe	Asp
305					310					315					320
Ala	Pro	His	Val	Asp	Leu	Ile	Ala	Ile	Leu	Arg	Pro	Thr	Glu	Ser	Val

[illegible][illegible][illegible]

				165					170				175			
Leu	Trp	Gly	Gln	Arg	Val	Ile	Glu	Val	Trp	Ser	Gly	Met	Pro	Thr	Leu	
			180					185					190			
Phe	Leu	Ile	Ile	Leu	Leu	Ser	Ser	Val	Val	Gln	Pro	Gly	Phe	Trp	Trp	
		195					200					205				
Leu	Leu	Gly	Ile	Thr	Val	Leu	Phe	Gly	Trp	Met	Ala	Leu	Val	Gly	Val	
	210					215					220					
Val	Arg	Ala	Glu	Phe	Leu	Arg	Thr	Arg	Asn	Tyr	Asp	Tyr	Ile	Arg	Ala	
225					230					235					240	
Ala	Gln	Ala	Leu	Gly	Val	Ser	Asp	Arg	Ala	Ile	Ile	Phe	Arg	His	Met	
				245					250					255		
Leu	Pro	Asn	Ala	Val	Val	Ala	Thr	Leu	Thr	Phe	Leu	Pro	Phe	Ile	Leu	
		260						265					270			
Cys	Ser	Ser	Ile	Thr	Thr	Leu	Thr	Ser	Leu	Asp	Phe	Leu	Gly	Phe	Gly	
		275					280					285				
Leu	Pro	Leu	Gly	Ser	Pro	Ser	Leu	Gly	Glu	Leu	Leu	Leu	Gln	Gly	Lys	
	290					295				300						
Asn	Asn	Leu	Gln	Ala	Pro	Trp	Leu	Gly	Ile	Thr	Ala	Phe	Leu	Ser	Val	
305					310					315					320	
Ala	Val	Leu	Leu	Ser	Leu	Leu	Ile	Phe	Ile	Gly	Glu	Ala	Val	Arg	Asp	
				325					330					335		
Ala	Phe	Asp	Pro	Asn	Lys	Ala	Val									
			340					345								

<210> 6564

<211> 302

<212> PRT

<213> Enterobacter cloacae

<400> 6564

Gly	Pro	Gly	Leu	Ala	Thr	Phe	Ser	Glu	Asn	His	Thr	Arg	Ala	Val	Arg	
1				5					10					15		
Gly	Leu	Asn	Pro	Glu	Val	Ile	Ala	Glu	Ile	Thr	His	Arg	Tyr	Gly	Leu	
		20						25				30				
Asn	Lys	Pro	Leu	His	Glu	Arg	Tyr	Cys	Arg	Met	Leu	Trp	Asp	Tyr	Val	
		35					40					45				
Arg	Phe	Asp	Phe	Gly	Asp	Ser	Leu	Phe	Arg	Ser	Ala	Ser	Val	Leu	Thr	
	50				55					60						
Leu	Ile	Lys	Gln	Ser	Leu	Pro	Val	Ser	Ile	Thr	Leu	Gly	Leu	Trp	Gly	
65					70				75						80	
Thr	Leu	Ile	Ile	Tyr	Leu	Val	Ser	Ile	Pro	Leu	Gly	Ile	Arg	Lys	Ala	
				85				90						95		
Val	Tyr	Asn	Gly	Ser	Arg	Phe	Asp	Ile	Trp	Ser	Ser	Thr	Phe	Ile	Ile	
		100						105					110			
Ile	Gly	Tyr	Ala	Ile	Pro	Ala	Phe	Leu	Phe	Ala	Val	Leu	Leu	Ile	Val	
	115						120				125					
Phe	Phe	Ala	Gly	Gly	Ser	Tyr	Phe	Asp	Leu	Phe	Pro	Leu	Arg	Gly	Leu	
	130				135						140					
Val	Ser	Ala	Asp	Phe	Ser	Thr	Leu	Pro	Trp	Tyr	Gln	Lys	Ile	Thr	Asp	
145					150					155					160	
Tyr	Phe	Trp	His	Ile	Thr	Leu	Pro	Val	Leu	Ala	Thr	Val	Ile	Gly	Gly	
			165					170						175		
Phe	Ala	Ala	Leu	Thr	Met	Leu	Thr	Lys	Asn	Ala	Phe	Leu	Asp	Glu	Ile	
			180					185					190			
Arg	Lys	Gln	Tyr	Val	Val	Thr	Ala	Arg	Ala	Lys	Gly	Val	Gly	Glu	Lys	
		195					200					205				
Gln	Ile	Met	Trp	Lys	His	Val	Phe	Arg	Asn	Ala	Met	Leu	Leu	Val	Ile	
	210					215					220					
Ala	Gly	Phe	Pro	Ala	Thr	Phe	Ile	Ser	Met	Phe	Phe	Thr	Gly	Ser	Leu	
225					230					235					240	
Leu	Ile	Glu	Val	Met	Phe	Ser	Leu	Asn	Gly	Leu	Gly	Leu	Leu	Gly	Tyr	

				245					250				255				
Glu	Ala	Thr	Val	Ser	Arg	Asp	Tyr	Pro	Val	Met	Phe	Gly	Thr	Leu	Tyr		
			260					265					270				
Ile	Phe	Thr	Leu	Ile	Gly	Leu	Leu	Asn	Ile	Ile	Ser	Asp	Ile	Ser			
		275					280					285					
Tyr	Thr	Leu	Val	Asp	Pro	Arg	Ile	Asp	Phe	Glu	Gly	Arg					
	290					295					300						

<210> 6565

<211> 548

<212> PRT

<213> Enterobacter cloacae

<400> 6565

Phe	Leu	Leu	Ala	Lys	Pro	Cys	Ala	Met	Pro	Ser	Ile	Pro	Thr	Arg	Arg		
1				5					10					15			
Tyr	Asp	Met	Thr	Arg	Pro	Leu	Leu	Ser	Ile	Glu	Asn	Leu	Ser	Ile	Ala		
			20					25					30				
Phe	Ser	Lys	Gln	Gly	Glu	Ser	Arg	Thr	Val	Val	Thr	Asp	Leu	Ser	Leu		
		35					40					45					
Gln	Ile	Gln	Arg	Gly	Glu	Thr	Leu	Ala	Leu	Val	Gly	Glu	Ser	Gly	Ser		
	50					55					60						
Gly	Lys	Ser	Val	Ser	Ala	Leu	Ser	Val	Leu	Arg	Leu	Leu	Pro	Ser	Pro		
65					70					75					80		
Pro	Val	Ser	Tyr	Pro	Gln	Gly	Asp	Ile	Leu	Phe	His	Gly	Gln	Ser	Leu		
				85					90					95			
Leu	Asn	Ala	Asp	Glu	Gln	Thr	Leu	Arg	Gly	Ile	Arg	Gly	Asn	Asn	Ile		
			100					105					110				
Ala	Met	Ile	Phe	Gln	Glu	Pro	Met	Val	Ser	Leu	Asn	Pro	Leu	His	Thr		
		115					120					125					
Leu	Glu	Lys	Gln	Leu	Tyr	Glu	Val	Leu	Ser	Leu	His	Arg	Gly	Met	Arg		
	130					135					140						
Lys	Glu	Ala	Ala	Arg	Gly	Glu	Ile	Leu	Asp	Cys	Leu	Glu	Arg	Thr	Gly		
145					150					155					160		
Ile	Arg	His	Ala	Ala	Lys	Arg	Leu	Asn	Asp	Phe	Pro	His	Gln	Leu	Ser		
				165					170					175			
Gly	Gly	Glu	Arg	Gln	Arg	Val	Met	Ile	Ala	Met	Ala	Leu	Leu	Thr	Arg		
		180						185						190			
Pro	Glu	Leu	Leu	Ile	Ala	Asp	Glu	Pro	Thr	Thr	Ala	Leu	Asp	Val	Thr		
		195					200						205				
Val	Gln	Ala	Gln	Ile	Leu	Gln	Leu	Leu	Arg	Glu	Leu	Arg	Asp	Glu	Leu		
	210					215						220					
Asn	Met	Ser	Leu	Leu	Phe	Ile	Thr	His	Asn	Leu	Ser	Ile	Val	Lys	Lys		
225					230					235					240		
Leu	Ala	Asp	Ala	Val	Ala	Val	Met	Gln	Asn	Gly	Arg	Cys	Val	Glu	Gln		
				245					250					255			
Asn	Arg	Ala	Ser	Ala	Leu	Leu	Ser	Ala	Pro	Gln	His	Pro	Tyr	Thr	Gln		
			260					265					270				
Arg	Leu	Leu	Asp	Ser	Glu	Pro	Ala	Gly	Asp	Pro	Val	Pro	Leu	Asn	Ala		
		275					280						285				
Asp	Cys	Ala	Pro	Leu	Leu	Ser	Val	Glu	Gly	Leu	Ser	Val	Ser	Phe	Pro		
	290					295						300					
Ile	Arg	Lys	Gly	Ile	Leu	Arg	Arg	Val	Val	Asp	His	Asn	His	Val	Leu		
305					310					315					320		
Lys	Asp	Met	Ser	Phe	Ala	Leu	Arg	Pro	Gly	Glu	Ser	Leu	Gly	Leu	Val		
				325					330					335			
Gly	Glu	Ser	Gly	Ser	Gly	Lys	Ser	Thr	Thr	Gly	Leu	Ala	Leu	Leu	Arg		
			340					345					350				
Leu	Ile	Ala	Ser	Gln	Gly	Ser	Ile	Val	Phe	Asp	Gly	Met	Pro	Leu	Gln		
		355					360					365					
Asn	Leu	Asn	Arg	Arg	Met	Met	Leu	Pro	Val	Arg	Pro	Arg	Met	Gln	Val		

370	375	380
Val Phe Gln Asp Pro Asn Ser Ser Leu Asn Pro Arg Leu Ser Val Leu		
385	390	395
Gln Ile Ile Glu Glu Gly Leu Arg Val His Gln Pro Thr Met Thr Ala		400
	405	410
Gln Gln Arg Glu Ile Asp Val Lys Arg Val Met Glu Glu Val Gly Leu		415
	420	425
Asp Pro Glu Thr Arg His Arg Tyr Pro Ala Glu Phe Ser Gly Gly Gln		430
	435	440
Arg Gln Arg Ile Ala Ile Ala Arg Ala Leu Ile Leu Lys Pro Glu Leu		445
	450	455
Ile Val Leu Asp Glu Pro Thr Ser Ser Leu Asp Arg Thr Val Gln Ala		460
465	470	475
Gln Ile Leu Ala Leu Leu Lys Gly Leu Gln Glu Lys His Arg Leu Ala		480
	485	490
Tyr Ile Phe Ile Ser His Asp Leu Gln Val Val Arg Ala Leu Cys His		495
	500	505
Gln Val Val Val Leu Arg Gln Gly Glu Val Val Glu Gln Gly Glu Cys		510
	515	520
Gln Arg Val Phe Thr Ala Pro Thr Gln Asp Tyr Thr Arg Gln Leu Leu		525
	530	535
Ser Ala Asp		540
545		

<210> 6566

<211> 160

<212> PRT

<213> Enterobacter cloacae

<400> 6566

Arg Gln Pro Asp Ala Gly Asn Leu Phe Phe Arg Gln Arg Ala Ile Phe		
1	5	10
Pro Trp Arg Gln Val Trp Ile Glu Phe Asn Arg Ala Asp Thr Phe Thr		15
	20	25
Met Gln Pro His Asn Val Val Ala His Gly Gly Lys His Pro Phe His		30
	35	40
Leu Val Ile Ala Ala Phe Thr Asp Gly Gln Ala His Val Ser Trp Ser		45
	50	55
Asp Asp Phe Gln His Arg Arg Phe Gly Gln Ile Phe Phe Ile Met Gln		60
65	70	75
Leu Asn Ala Phe Cys Glu Leu Leu Cys Arg Val Ile Arg Asp Arg Arg		80
	85	90
Leu Lys Arg His Pro Ile Gly Phe Leu Thr Val Met Ala Arg Gly Gly		95
	100	105
Asp Ala Met Arg Pro Leu Ala Val Ile Gly His Gln His Gln Ala Gly		110
	115	120
Gly Ile Asn Ile Gln Ser Pro Cys Arg Met Gln Leu Val Arg His Arg		125
	130	135
Phe Val Glu Glu Val Glu His Arg Arg Val Ile Arg Ile Val Arg		140
145	150	155
		160

<210> 6567

<211> 121

<212> PRT

<213> Enterobacter cloacae

<400> 6567

Thr Asp Val Thr Phe Arg Phe Val Glu His Glu Val Ala Arg Ala Ile		
1	5	10
Leu Leu Gly Gln Arg Val Ala Val Ile Leu His Leu Val Leu Arg Leu		15
	20	25
		30

Glu Phe Lys Ser Ala Val Phe His Asn Val Ala Val His Gly Tyr Ala
 35 40 45
 Ala Gly Ala Asn Phe Thr Pro Gly Asn Ser Ala Ala Tyr Ala Glu Leu
 50 55 60
 Leu Ser Asp Lys Leu Ile Lys Ser His Glu Ile Phe Leu Ala Leu Met
 65 70 75 80
 Val Leu Glu Val Gly Leu Arg Val Arg Lys Arg Ser Ser Gln Lys Gln
 85 90 95
 Phe Ser Ile Met Val Trp Leu Arg His Ser Arg Glu Lys Val Ser Trp
 100 105 110
 His Thr Ile Cys Glu Leu Thr Glu
 115 120

<210> 6568

<211> 103

<212> PRT

<213> Enterobacter cloacae

<400> 6568

Gly Phe Lys Tyr Arg Glu Lys Ser Met Phe Thr Ile Glu Ala Glu Val
 1 5 10 15
 Arg Asn Val Gln Gly Lys Gly Ala Ser Arg Arg Leu Arg Thr Ala Asn
 20 25 30
 Lys Phe Pro Ala Ile Val Tyr Gly Gly Glu Ala Ala Pro Val Ala Ile
 35 40 45
 Glu Leu Asp His Asp Lys Val Trp Asn Met Gln Thr Lys Ala Glu Phe
 50 55 60
 Tyr Ser Glu Val Leu Thr Ile Val Val Gly Gly Lys Glu Glu Lys Val
 65 70 75 80
 Lys Val Gln Ala Val Gln Arg His Ala Phe Lys Pro Lys Leu Thr His
 85 90 95
 Ile Asp Phe Val Arg Ala
 100

<210> 6569

<211> 496

<212> PRT

<213> Enterobacter cloacae

<400> 6569

Glu Ile Thr Met Leu Leu Ser Ser Thr Arg Lys Asp Trp Leu Gly Asn
 1 5 10 15
 Val Arg Gly Asp Val Leu Ala Gly Ile Val Val Ala Leu Ala Leu Ile
 20 25 30
 Pro Glu Ala Ile Ala Phe Ser Ile Ile Ala Gly Val Asp Pro Gln Val
 35 40 45
 Gly Leu Tyr Ser Ala Phe Cys Ile Pro Leu Val Met Ala Phe Phe Gly
 50 55 60
 Gly Arg Pro Ala Met Ile Ser Ser Ser Thr Gly Ala Met Ala Leu Leu
 65 70 75 80
 Met Val Thr Leu Val Lys Asp His Gly Leu Gln Tyr Leu Leu Ala Ala
 85 90 95
 Ser Ile Leu Thr Gly Val Phe Gln Leu Ile Ala Gly Tyr Leu Lys Leu
 100 105 110
 Gly Gly Leu Met Arg Phe Val Ser Arg Ser Val Val Thr Gly Phe Val
 115 120 125
 Asn Ala Leu Ala Ile Leu Ile Phe Met Ala Gln Leu Pro Glu Leu Thr
 130 135 140
 Asn Val Thr Trp His Val Tyr Ala Met Thr Ala Ala Gly Leu Gly Ile
 145 150 155 160
 Ile Tyr Leu Phe Pro Tyr Ile Asn Lys Thr Ile Pro Ser Pro Leu Val

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<210> 6570
<211> 282
<212> PRT
<213> Enterobacter cloacae
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Gln 1	Thr	Gly	Gly	Lys 5	Thr	Met	Asn	Asn	Thr 10	Val	Thr	Ala	Cys	Val 15	Asp
Gly	Ser	Leu	Ser 20	Thr	Arg	Ser	Val	Cys 25	Glu	Tyr	Ala	Ala	Trp 30	Ala	Ala
Arg	Thr	Leu	Gln 35	Ser	Gln	Leu	Ala 40	Leu	Leu	His	Val	Ile 45	Glu	Lys	Asp
Ser	Thr 50	Pro	Val	Val	Ser	Asp 55	Leu	Thr	Gly	Thr	Leu 60	Gly	Ile	Asp	Ser
Gln 65	Gln	Leu	Leu	Thr 70	Asp	Glu	Leu	Val	Glu	Ile 75	Glu	Gly	Gln	Arg	Asn 80
Arg	Leu	Leu	Met 85	Ala	Gln	Gly	Lys	Ala	Ile 90	Leu	Glu	Ser	Cys 95	Ala	Glu
Leu	Leu	Gln	Lys	Gln	Gly	Ser	Pro	Asp	Val	Leu	Leu	Met	Gln	Lys	His


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<210> 6571
<211> 242
<212> PRT
<213> Enterobacter cloacae
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[illegible]

<210> 6572
 <211> 512
 <212> PRT
 <213> Enterobacter cloacae

<400> 6572

Phe	Met	His	Ser	Tyr	Glu	Asp	Arg	Ile	Arg	Ala	Val	Glu	Leu	Tyr	Tyr
1				5					10					15	
Arg	Tyr	Gly	Lys	Lys	Ala	Ser	Val	Val	Val	Met	Glu	Leu	Gly	Tyr	Pro
		20					25						30		
Ser	Thr	Lys	Gln	Leu	Gly	Arg	Trp	Val	Arg	Ile	Tyr	Glu	Glu	Lys	Gly
		35					40					45			
Asp	Leu	Pro	Arg	Glu	Leu	Lys	Pro	Arg	Glu	Arg	Tyr	Ser	Arg	Thr	Gln
	50					55					60				
Lys	Ile	Ala	Ala	Val	Glu	His	Tyr	Leu	Thr	His	Gly	Gly	Cys	Leu	Ser
65				70						75				80	
Tyr	Thr	Arg	Arg	Ala	Ile	Gly	Tyr	Pro	Ser	Asn	Glu	Ile	Leu	Lys	Arg
				85					90					95	
Trp	Ile	Glu	Glu	Phe	Tyr	Pro	Asn	Ala	Arg	Pro	Leu	Val	Ile	Arg	Ser
		100						105					110		
Gly	Thr	Asn	Lys	Cys	Phe	Ser	Pro	Glu	Glu	Arg	Ser	Gln	Ala	Val	Arg
		115					120					125			
Glu	Leu	Cys	Asn	Arg	Arg	Gly	Thr	Ala	Arg	Lys	Val	Ala	Gln	Ser	Ile
	130					135					140				
Gly	Val	Ser	Val	Pro	Val	Leu	Tyr	Lys	Trp	Lys	Lys	Asp	Leu	Ile	Ser
145				150					155					160	
Asp	Glu	Ala	Tyr	Gln	Ser	Met	Arg	Lys	Arg	Lys	Ala	Ala	Pro	Gln	Asp
				165					170					175	
Lys	Asn	Gln	Asp	Ala	Leu	Leu	Gly	Glu	Ile	Gln	Arg	Leu	Arg	Gln	Gln
		180					185					190			
Val	His	Gln	Leu	Gln	Leu	Glu	Arg	Asp	Ile	Leu	Thr	Lys	Ala	Asn	Glu
	195						200					205			
Leu	Ile	Lys	Lys	Asp	Leu	Gly	Ile	Ser	Phe	Leu	Thr	Leu	Lys	Asn	Arg
	210					215					220				
Glu	Lys	Thr	Leu	Ile	Val	Asp	Ala	Leu	Lys	Lys	Lys	Tyr	Pro	Val	Ala
225				230					235					240	
Glu	Leu	Leu	Ser	Val	Leu	Gln	Leu	Ala	Arg	Ser	Cys	Tyr	Phe	Tyr	His
				245					250					255	
Lys	Ala	Ser	Lys	Arg	Leu	Cys	Asp	Lys	Tyr	Ala	Glu	Ile	Arg	Val	Ile
		260					265						270		
Met	Ala	Asp	Ile	Phe	Glu	Glu	Asn	Tyr	Arg	Cys	Tyr	Gly	Tyr	Arg	Arg
		275					280					285			
Leu	His	Ala	Met	Leu	Arg	Gly	Asn	Asn	Arg	Val	Ile	Ser	Glu	Lys	Val
	290					295					300				
Val	Arg	Arg	Leu	Met	Ala	Glu	Glu	Gln	Leu	Val	Val	Lys	Arg	Thr	Arg
305				310					315					320	
Arg	Arg	Arg	Tyr	Asn	Ser	Tyr	Cys	Gly	Glu	Ile	Gly	Pro	Ala	Pro	Glu
			325						330					335	
Asn	Leu	Leu	Ala	Arg	Asp	Phe	Ser	Ser	Cys	Arg	Pro	Asn	Glu	Lys	Trp
		340					345					350			
Leu	Thr	Asp	Ile	Thr	Glu	Phe	Gln	Leu	Pro	Ala	Gly	Lys	Val	Tyr	Leu
		355					360					365			
Ser	Pro	Val	Ile	Asp	Cys	Phe	Asp	Gly	Gln	Val	Val	Ser	Trp	Ser	Ile
	370					375					380				
Gly	Thr	Arg	Pro	Asp	Ala	Thr	Leu	Val	Asn	Thr	Met	Leu	Asp	Glu	Ala
385				390					395					400	
Leu	Asp	Thr	Leu	Asn	Glu	His	Asp	Lys	Pro	Val	Ile	His	Ser	Asp	Arg
			405						410					415	
Gly	Gly	His	Tyr	Arg	Trp	Pro	Gly	Trp	Leu	Asp	Arg	Ile	Asn	Thr	Ser

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<210> 6573
<211> 481
<212> PRT
<213> Enterobacter cloacae
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Val 1	Lys	Met	Ser	Gly 5	Val	Tyr	Asn	Gln	Val 10	Arg	Ile	Thr	Met	Thr 15	Ala
Leu	Ala	Ala	Glu	Phe	Phe	Thr	Leu	Asp	Glu	Val	Asn	Arg	Leu	Lys	Ile
			20					25					30		
Ile	Gln	Asp	Val	Ile	Asp	Arg	Arg	Leu	Thr	Thr	Gln	Met	Ala	Ala	Gln
		35					40					45			
Arg	Leu	Gly	Ile	Ser	Asp	Arg	Gln	Cys	Arg	Arg	Leu	Ala	Arg	Tyr	
	50				55						60				
Arg	Glu	Asp	Gly	Pro	Ile	Gly	Met	Thr	Ser	Arg	Arg	Arg	Gly	Lys	Ser
65					70					75					80
Ser	Asn	Asn	Gln	Leu	Pro	Gln	Gly	Leu	Ala	Ala	Tyr	Ala	Leu	Asn	Ile
			85						90					95	
Ile	Arg	Glu	Arg	Tyr	Asn	Asp	Phe	Gly	Pro	Thr	Leu	Ala	Cys	Glu	Lys
			100					105					110		
Leu	Ser	Glu	Val	His	Gly	Val	His	Leu	Ser	Lys	Glu	Thr	Val	Arg	Lys
		115					120					125			
Leu	Met	Thr	Gln	Ala	Ser	Leu	Trp	Val	Pro	Arg	Lys	Gln	Arg	Ala	Pro
	130					135					140				
Lys	Ile	Gln	Gln	Pro	Arg	Tyr	Arg	Arg	Ala	Cys	Ala	Gly	Glu	Leu	Ile
145					150					155					160
Gln	Ile	Asp	Gly	Cys	Asp	His	His	Trp	Phe	Glu	Asn	Arg	Gly	Pro	Lys
			165						170					175	
Cys	Thr	Ala	Leu	Val	Tyr	Val	Asp	Asp	Ala	Thr	Ser	Arg	Leu	Met	Gln
			180					185					190		
Leu	Leu	Phe	Val	Lys	Ser	Glu	Ser	Thr	Phe	Thr	Tyr	Phe	Glu	Ala	Thr
		195					200					205			
Arg	Gly	Tyr	Ile	Glu	Lys	His	Gly	Lys	Pro	Leu	Ala	Leu	Tyr	Ser	Asp
	210					215					220				
Lys	Ala	Ser	Val	Phe	Arg	Ile	Asn	Asn	Lys	Asn	Ala	Thr	Gly	Gly	Asp
225					230					235					240
Gly	Asp	Thr	Gln	Phe	Gly	Arg	Ala	Met	His	Glu	Leu	Asn	Ile	Gln	Thr
			245						250					255	
Ile	Cys	Ala	Glu	Thr	Ser	Ala	Ala	Lys	Gly	Arg	Val	Glu	Arg	Ala	His
			260					265					270		
Leu	Thr	Leu	Gln	Asp	Arg	Leu	Val	Lys	Glu	Leu	Arg	Leu	Gln	Gly	Ile
		275					280					285			
Ser	Ser	Met	Glu	Ala	Ala	Asn	Ala	Phe	Ala	Glu	Glu	Phe	Met	Asn	Asp
	290					295					300				
Tyr	Asn	Arg	Arg	Phe	Ala	Lys	Ala	Pro	Arg	Gln	Glu	Phe	Asp	Val	His
305					310					315					320
Arg	Glu	Leu	Asp	Val	Asp	Asp	Asp	Leu	Asp	Met	Val	Phe	Asn	Trp	Arg
			325						330					335	
Glu	Ala	Arg	Lys	Val	Ser	Lys	Ser	Leu	Thr	Val	Gln	Tyr	Asp	Lys	Val

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<210> 6574
<211> 155
<212> PRT
<213> Enterobacter cloacae
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```
<210> 6575
<211> 125
<212> PRT
<213> Enterobacter cloacae
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<400> 6575															
Lys	Leu	Ser	His	Met	Lys	Tyr	His	Met	Tyr	Cys	Tyr	Phe	Phe	Thr	Arg
1				5					10					15	
Leu	Ser	Met	Leu	Gln	Pro	Val	Gln	Leu	Phe	Lys	Leu	Leu	Ala	Asp	Glu
			20					25					30		
Thr	Arg	Ser	Thr	Ile	Val	Met	Leu	Leu	Arg	Glu	Ser	Gly	Glu	Met	Cys
		35					40					45			
Val	Cys	Asp	Ile	Cys	Ala	Ala	Thr	Ala	Glu	Ser	Gln	Pro	Lys	Ile	Ser
	50					55					60				

Arg His Met Ala Leu Leu Arg Glu Ala Glu Leu Val Ile Asp Arg Arg
 65 70 75 80
 Glu Gly Lys Trp Val His Tyr Arg Leu Ser Pro His Met Pro Ala Trp
 85 90 95
 Ala Ala Gly Ile Ile Asp Thr Ala Trp Asn Cys Glu Arg Glu Asn Ile
 100 105 110
 Arg Asn Lys Leu Ser Ser Val Ala Ser Val Ser Cys
 115 120 125

<210> 6576

<211> 434

<212> PRT

<213> Enterobacter cloacae

<400> 6576

Met Glu Phe Leu Met Leu Leu Ala Gly Ala Ile Phe Leu Phe Thr Leu
 1 5 10 15
 Val Leu Val Ile Trp Gln Pro Arg Gly Leu Gly Ile Gly Trp Ser Ala
 20 25 30
 Ser Leu Gly Ala Ile Leu Ala Leu Leu Thr Gly Val Val His Leu Gly
 35 40 45
 Asp Ile Pro Val Val Trp Gln Ile Val Trp Asn Ala Thr Ala Thr Phe
 50 55 60
 Ile Ala Val Ile Ile Ile Ser Leu Leu Leu Asp Glu Ser Gly Phe Phe
 65 70 75 80
 Glu Trp Ala Ala Leu His Val Ala Arg Trp Gly Asn Gly Arg Gly Arg
 85 90 95
 Leu Leu Phe Thr Trp Ile Val Leu Leu Gly Ala Met Val Ala Ala Leu
 100 105 110
 Phe Ala Asn Asp Gly Ala Ala Leu Ile Leu Thr Pro Ile Val Ile Ala
 115 120 125
 Met Leu Leu Ala Leu Gly Phe Ser Arg Gly Ala Thr Leu Ala Phe Ile
 130 135 140
 Met Ala Ala Gly Phe Ile Ala Asp Thr Ala Ser Leu Pro Leu Ile Val
 145 150 155 160
 Ser Asn Leu Val Asn Ile Val Ser Ala Asp Phe Phe Lys Leu Gly Phe
 165 170 175
 Ser Glu Tyr Ala Ala Val Met Val Pro Val Asn Leu Ala Ala Ile Ala
 180 185 190
 Ala Thr Leu Val Met Leu His Leu Phe Phe Arg Lys Asp Ile Pro Ala
 195 200 205
 Val Tyr Asp Val Ser Leu Leu Lys Glu Pro Lys Asp Ala Ile Arg Asp
 210 215 220
 Val Asn Thr Phe Lys Thr Gly Trp Leu Val Leu Val Leu Leu Val
 225 230 235 240
 Gly Phe Phe Gly Leu Glu Pro Leu Gly Val Pro Val Ser Leu Val Ala
 245 250 255
 Ala Ala Gly Ala Leu Leu Leu Phe Ala Val Ala Lys Lys Gly His Ala
 260 265 270
 Ile Asn Thr Gly Lys Val Leu Arg Gly Ala Pro Trp Gln Ile Val Ile
 275 280 285
 Phe Ser Leu Gly Met Tyr Leu Val Val Tyr Gly Leu Arg Asn Ala Gly
 290 295 300
 Leu Thr His Tyr Leu Ser Ser Leu Leu Asn Gln Leu Ala Glu Gln Gly
 305 310 315 320
 Leu Trp Ala Ala Thr Leu Gly Thr Gly Phe Leu Thr Ala Phe Leu Ser
 325 330 335
 Ser Val Met Asn Asn Met Pro Thr Val Leu Val Gly Ala Leu Ser Ile
 340 345 350
 Asp Gly Ser Thr Ala Thr Gly Val Ile Lys Glu Ala Met Ile Tyr Ala
 355 360 365

Asn	Val	Ile	Gly	Ser	Asp	Leu	Gly	Pro	Lys	Ile	Thr	Pro	Ile	Gly	Ser
370						375					380				
Leu	Ala	Thr	Leu	Leu	Trp	Leu	His	Val	Leu	Ser	Gln	Lys	Asn	Ile	Lys
385					390					395					400
Ile	Thr	Trp	Gly	Tyr	Phe	Arg	Val	Gly	Ile	Val	Met	Thr	Ile	Pro	
				405				410					415		
Val	Leu	Phe	Val	Thr	Leu	Ala	Ala	Leu	Ala	Leu	Arg	Leu	Ser	Phe	Thr
			420					425					430		
Leu															

<210> 6577

<211> 145

<212> PRT

<213> Enterobacter cloacae

<400> 6577

Asp	Thr	Asp	Met	Ser	Asn	Ile	Thr	Ile	Tyr	His	Asn	Pro	Ala	Cys	Gly
1				5					10					15	
Thr	Ser	Arg	Asn	Thr	Leu	Glu	Met	Ile	Arg	Asn	Ser	Gly	Thr	Glu	Pro
			20					25					30		
Thr	Val	Ile	His	Tyr	Leu	Glu	Thr	Pro	Pro	Ser	Arg	Ala	Glu	Leu	Val
		35					40					45			
Lys	Leu	Ile	Ala	Asp	Met	Gly	Ile	Thr	Val	Arg	Ala	Leu	Leu	Arg	Lys
	50					55					60				
Asn	Val	Glu	Pro	Phe	Glu	Ala	Leu	Gly	Leu	Ala	Glu	Asp	Arg	Phe	Thr
65					70					75					80
Asp	Glu	Gln	Leu	Ile	Asp	Phe	Met	Leu	Gln	His	Pro	Val	Leu	Ile	Asn
				85					90					95	
Arg	Pro	Ile	Val	Val	Thr	Pro	Leu	Gly	Thr	Arg	Leu	Cys	Arg	Pro	Ser
			100					105						110	
Glu	Val	Val	Leu	Asp	Ile	Leu	Pro	Asp	Ala	Gln	Lys	Ser	Ala	Phe	Thr
		115					120						125		
Lys	Glu	Asp	Gly	Glu	Lys	Val	Val	Asp	Glu	Lys	Gly	Asn	Arg	Leu	Asn
	130					135					140				

145

<210> 6578

<211> 208

<212> PRT

<213> Enterobacter cloacae

<400> 6578

Pro	Pro	Leu	Cys	Gly	Phe	Phe	Ile	Gly	Asp	Ser	Leu	Val	Ala	Glu	Glu
1				5					10					15	
Val	Lys	Phe	Val	Val	Val	Gly	His	His	Thr	Arg	Thr	Gly	Gln	Ala	Gln
			20					25					30		
Arg	Leu	Ala	Ala	Leu	Leu	Asp	Ala	His	Leu	Leu	Ile	Asp	Asp	Gly	Lys
			35				40					45			
His	Gly	Ala	Asn	Trp	Asn	His	Arg	Arg	Ala	Leu	Glu	Trp	Ala	Ala	Glu
	50					55					60				
Gln	Thr	Cys	Arg	Val	Val	Val	Val	Glu	Asp	Asp	Ala	Leu	Pro	Val	His
65					70					75					80
Gly	Phe	Thr	Glu	Lys	Val	Thr	Asp	Trp	Leu	Ala	Arg	Phe	Pro	Asp	Asp
				85					90					95	
Met	Leu	Ser	Phe	Tyr	Leu	Gly	Thr	Gly	Arg	Pro	Pro	Gln	Tyr	Gln	Met
			100					105						110	
Gln	Ile	Ala	Glu	Arg	Leu	Thr	Val	Ala	Asp	Lys	Thr	Arg	Ala	Asp	Tyr
		115					120					125			
Ile	Thr	Leu	Ser	Arg	Leu	Ile	His	Gly	Val	Cys	Tyr	Ser	Val	Pro	Pro

130		135		140
Glu His Val His Arg Val Leu Ser Arg Trp Asp Asn Ser Lys Pro Ala				
145		150		155
Asp Tyr Ala Val Gly Asp Ala Trp Gly Gly Ser Val Ile Tyr Pro Cys				160
	165		170	
Tyr Ser Leu Val Asp His Ala Asp Gly Glu Pro Val Glu Arg His Pro				175
	180		185	
Asp Ser Ala Pro Arg Thr Glu Arg Arg Arg Ala Trp Arg Leu Ala				190
	195		200	205

<210> 6579

<211> 162

<212> PRT

<213> Enterobacter cloacae

<400> 6579

Glu Phe Ser Ile Met Ser Gly Pro Pro Lys Thr Pro Thr His Leu Arg				
1	5		10	15
Leu Val Arg Gly Asn Pro Ser Lys Arg Pro Ile Asn Glu Asn Glu Pro				
	20		25	30
Lys Pro Pro Ser Gly Val Pro Pro Thr Pro Lys His Phe Asp Lys Gln				
	35		40	45
Gly Lys Tyr Trp Phe Lys Arg Met Ala Asp Glu Leu Asp Ala Ile Gly				
	50		55	60
Val Met Ser Gln Leu Asp Ala Arg Ala Leu Glu Leu Leu Val Glu Ala				
65	70		75	80
Tyr Thr Glu Tyr Arg His His Cys Asp Thr Leu Glu Val Glu Gly Tyr				
	85		90	95
Thr Tyr Arg Thr Glu Thr Gln Ser Gly Asp Val Leu Ile Lys Ala His				
	100		105	110
Pro Ala Ala Ile Met Lys Ala Asp Ala Trp Lys Arg Leu Arg Ala Met				
	115		120	125
Leu Gly Glu Phe Gly Met Thr Pro Ala Ser Arg Ser Lys Val Asn Ala				
	130		135	140
Lys Gly Pro Glu Ala Val Asp Pro Leu Ala Glu Phe Met Lys Ala Arg				
145	150		155	160
Asp				

<210> 6580

<211> 442

<212> PRT

<213> Enterobacter cloacae

<400> 6580

Ser His His Gly Arg Phe Leu Met Lys Lys Asn Lys Arg Pro Gly Arg				
1	5		10	15
Val Lys Ser Ala Leu Leu Asn Trp Leu Gly Val Pro Ile Ser Leu Thr				
	20		25	30
Thr Gly Thr Phe Trp Glu Glu Trp Phe Gly Thr Ser Ser Ser Gly Lys				
	35		40	45
Val Val Thr Ala Asp Lys Ala Ile Gln Leu Ser Ala Val Trp Ala Cys				
	50		55	60
Val Arg Leu Leu Ser Glu Ser Ile Ser Thr Leu Pro Leu Lys Ile Tyr				
65	70		75	80
Val Arg Gln Pro Asp Gly Ser Arg Lys Ala Ala Thr Asp His Pro Ala				
	85		90	95
Tyr Ser Ile Leu Cys Arg Arg Pro Asn Ser Glu Met Thr Pro Ser Arg				
	100		105	110
Phe Met Leu Met Val Val Ala Ser Ile Cys Leu Arg Gly Asn Ala Phe				
	115		120	125

```

Ile Glu Lys Lys Phe Ile Ala Asn Arg Leu Val Ser Leu Val Pro Leu
 130          135          140
Leu Pro Gln Asn Met Val Val Lys Arg Leu Val Thr Gly Ala Leu Glu
145          150          155
Tyr Lys Tyr Thr Glu Asn Gly Asn Glu Arg Val Ile Pro Val Lys Asn
      165          170          175
Ile Met His Ile Arg Gly Phe Gly Leu Asp Gly Val Cys Gly Met Met
      180          185          190
Pro Met Lys Thr Gly Arg Asp Val Ile Gly Ser Ala Met Ala Val Glu
      195          200          205
Glu Ser Ala Ala Lys Ile Phe Glu Gln Gly Leu Gln Ser Ser Gly Phe
      210          215          220
Leu Ser Ala Glu Asn Ala Leu Ser Asp Glu Gln Arg Glu Arg Leu Arg
225          230          235          240
Ser Tyr Met Ala Ala Phe Thr Gly Ser Lys Asn Ala Gly Lys Ile Met
      245          250          255
Val Leu Glu Gly Gly Leu Lys Tyr Gln Gly Val Thr Met Asn Pro Glu
      260          265          270
Asp Ala Gln Met Leu Glu Ser Arg Ser Phe Ser Ile Glu Glu Ile Cys
      275          280          285
Arg Trp Phe Arg Val Pro Pro Phe Met Val Gly His Thr Thr Lys Gln
290          295          300
Ser Ser Trp Ala Ser Ser Leu Glu Gly Met Asn Leu Gln Phe Leu Thr
305          310          315          320
His Thr Leu Arg Pro Leu Leu Val Asn Ile Glu Gln Glu Ile Gly Arg
      325          330          335
Cys Leu Leu Asp Ser Asp Asp Glu Val Phe Ala Glu Phe Ser Val Glu
      340          345          350
Gly Leu Leu Arg Ala Asp Ser Ala Gly Arg Ala Ala Tyr Tyr Thr Ser
      355          360          365
Ala Leu Gln Asn Gly Trp Met Ser Arg Asn Asp Val Arg Arg Leu Glu
      370          375          380
Asn Met Pro Pro Ile Glu Gly Gly Asp Ile Tyr Thr Val Gln Leu Asn
385          390          395          400
Leu Thr Gln Leu Lys Asn Leu Glu Ser Ser Asn Pro Ala Val Gln Ala
      405          410          415
Leu Ala Leu Arg Glu Leu His Asn His Ile Phe Pro Asp Ile Ser Phe
      420          425          430
Glu Gln Ser Pro Leu Lys Gln Ala Ala
      435          440

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<210> 6581

<211> 136

<212> PRT

<213> Enterobacter cloacae

<400> 6581

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Ala Ser Pro Arg Leu Ser Ala Thr His Arg Thr Pro Pro Gly Val Glu
1          5          10          15
Val Ser Leu Met Pro Ala Leu Ile Pro Arg Ala Cys Arg Lys Arg Gly
      20          25          30
Cys Pro Gly Thr Thr Thr Asp Arg Ser Gly Tyr Cys Pro Lys His Leu
      35          40          45
Asn Glu Gly Trp Gln Gln His Gln Arg Gly Gln Ser Arg His Gln Arg
      50          55          60
Gly Tyr Gly Ser Lys Trp Asp Arg Leu Arg Pro Ile Val Leu Gly Arg
65          70          75          80
Asp Lys His Leu Cys Gln Glu Cys Leu Arg Asn Gly Arg Tyr Thr Pro
      85          90          95
Ala Glu Thr Val Asp His Ile Thr Ala Lys Ala Asn Gly Gly Thr Asp
      100          105          110

```


Asp Leu Ser Asn Leu Glu Ser Leu Cys Lys Pro Cys His Arg Ala Lys
 115 120 125
 Thr Ala Val Glu Arg Leu Lys
 130 135

<210> 6582

<211> 590

<212> PRT

<213> Enterobacter cloacae

<400> 6582

Ser Ala Gly Arg Val Tyr Glu Ser Glu Gly Leu Met Ala Lys Val Ala
 1 5 10 15
 Glu Gly Ile Arg Tyr Ala Glu Arg Val Val Ala Gly Glu Ile Ile Ala
 20 25 30
 Cys Glu Tyr Val Arg Leu Ala Cys Gln Arg Phe Leu Asp Asp Leu Ala
 35 40 45
 His Gly Glu Glu Arg Gly Ile Phe Phe Ser Glu Pro Arg Ala Gln His
 50 55 60
 Ile Leu Asn Phe Tyr Asn Phe Val Pro His Val Lys Gly Ala Leu Ala
 65 70 75 80
 Gly Gln Pro Ile Glu Leu Met Asp Trp His Val Phe Ile Leu Ile Asn
 85 90 95
 Ile Phe Gly Phe Val Ile Pro Leu Val Asn Glu Glu Thr Gly Glu Thr
 100 105 110
 Val Leu Arg Asn Asp Gly Ser Gly Arg Pro Val Met Val Arg Arg Phe
 115 120 125
 Arg Thr Ala Asp Val Glu Val Ala Arg Lys Asn Ala Lys Ser Thr Leu
 130 135 140
 Cys Ser Gly Val Gly Leu Tyr Met Ala Gly Ala Asp Gly Glu Gly Gly
 145 150 155 160
 Ala Glu Val Tyr Ser Ala Ala Thr Thr Arg Asp Gln Ala Arg Ile Val
 165 170 175
 Phe Glu Asp Ala Lys Asn Met Val Lys Lys Ala Lys Ala Thr Leu Gly
 180 185 190
 Arg Ile Phe Glu Phe Asn Lys Leu Ala Ile Tyr Gln Glu Gln Thr Ala
 195 200 205
 Ser Lys Phe Glu Pro Leu Ser Ser Asp Ala Asn Asn Leu Asp Gly Leu
 210 215 220
 Asn Ile His Cys Ala Ile Val Asp Glu Leu His Ala His Lys Thr Arg
 225 230 235 240
 Asp Val Trp Asp Val Leu Glu Thr Ala Thr Gly Ala Arg Leu Gln Ser
 245 250 255
 Leu Leu Phe Gly Ile Thr Thr Ala Gly Phe Asn Lys Glu Gly Ile Cys
 260 265 270
 Tyr Glu Leu Arg Asp Tyr Ala Ile Lys Val Leu Arg Gly Leu Val Lys
 275 280 285
 Asp Asp Thr Phe Phe Ala Ile Tyr Thr Leu Asp Glu Gly Asp Asp
 290 295 300
 Pro Phe Asp Glu Lys Val Trp Gln Lys Ala Asn Pro Gly Leu Gly Ile
 305 310 315 320
 Cys Lys Arg Trp Asp Asp Leu Arg Arg Leu Ala Lys Lys Ala Lys Glu
 325 330 335
 Gln Val Ser Ala Arg Ile Asn Phe Phe Thr Lys His Met Asn Ile Trp
 340 345 350
 Val Thr Ala Glu Ser Ala Trp Met Asp Met Met Lys Trp Glu Lys Cys
 355 360 365
 Glu Phe Ile Ala Pro Gln His Glu Leu Lys Thr Tyr Pro Ser Trp Val
 370 375 380
 Gly Val Asp Leu Ser Asn Lys Ile Asp Ile Cys Ala Ala Ala Lys Val
 385 390 395 400

Thr Pro Arg Ser Glu Arg Arg Lys Leu Ile Lys Ala Leu Ser Gly Gly
 245 250 255
 Met Pro Gly Ala Val Thr Thr Asn Asp Gly Thr Pro Gly Ala Ala Glu
 260 265 270
 Asp Ile Lys Pro Glu Thr Leu Asn Ser Leu Glu Ser Ala Leu Ala Ala
 275 280 285
 Leu Val Lys
 290

<210> 6584

<211> 417

<212> PRT

<213> Enterobacter cloacae

<400> 6584

Ala Gly Arg Ile Asn Met Gly Leu Lys His Leu Phe Glu Lys Ile Glu
 1 5 10 15
 Pro His Phe Thr Glu Gly Lys Leu Lys Lys Tyr Tyr Pro Leu Tyr Glu
 20 25 30
 Ala Thr Thr Thr Ile Phe Tyr Thr Pro Gly Leu Val Thr Lys Gly Ala
 35 40 45
 Ala His Val Arg Asp Ala Ile Asp Leu Lys Arg Met Met Ile Leu Val
 50 55 60
 Trp Phe Ala Val Phe Pro Ala Met Phe Trp Gly Met Tyr Asn Val Gly
 65 70 75 80
 Leu Gln Thr Ile Pro Ala Leu His His Met Tyr Asp Ala Glu Gln Leu
 85 90 95
 Ala Gln Val Ile Gln Ser Asp Trp His Tyr Arg Leu Ala Gln Ser Leu
 100 105 110
 Gly Val Ser Phe Ala Ala Asp Ala Gly Trp Ile Ser Met Met Thr Leu
 115 120 125
 Gly Ala Val Phe Phe Leu Pro Ile Tyr Met Thr Val Phe Ile Val Gly
 130 135 140
 Gly Phe Trp Glu Val Leu Phe Ala Ile Ile Arg Lys His Glu Ile Asn
 145 150 155 160
 Glu Gly Phe Phe Val Thr Ser Ile Leu Phe Ala Leu Ile Val Pro Pro
 165 170 175
 Thr Leu Pro Leu Trp Gln Ala Ala Met Gly Ile Ser Phe Gly Val Val
 180 185 190
 Ile Ala Lys Glu Ile Phe Gly Gly Thr Gly Arg Asn Phe Leu Asn Pro
 195 200 205
 Ala Leu Ala Gly Arg Ala Phe Leu Phe Phe Ala Tyr Pro Ala Gln Ile
 210 215 220
 Ser Gly Asp Leu Val Trp Thr Ala Ala Asp Gly Phe Ser Gly Ala Thr
 225 230 235 240
 Pro Leu Ser Gln Trp Ala Ala Gly Gly Gly Glu Thr Leu Val Asn Asn
 245 250 255
 Ala Thr Gly Gln Pro Val Thr Trp Phe Asp Ala Phe Ile Gly Asn Ile
 260 265 270
 Pro Gly Ser Ile Gly Glu Val Ser Thr Leu Met Ile Leu Ile Gly Gly
 275 280 285
 Ala Ile Ile Leu Phe Gly Arg Val Ala Ser Trp Arg Ile Val Ala Gly
 290 295 300
 Val Met Leu Gly Met Val Leu Thr Ala Thr Leu Phe Asn Phe Ile Gly
 305 310 315 320
 Ser Asp Thr Asn Pro Met Phe Ser Met Pro Trp Tyr Trp His Leu Val
 325 330 335
 Leu Gly Gly Phe Ala Phe Gly Met Met Phe Met Ala Thr Asp Pro Val
 340 345 350
 Ser Ala Ser Phe Thr Asp Arg Gly Lys Trp Cys Tyr Gly Ala Leu Ile
 355 360 365

Gly	Val	Met	Cys	Val	Leu	Ile	Arg	Val	Val	Asn	Pro	Ala	Tyr	Pro	Glu
	370					375				380					
Gly	Met	Met	Leu	Ala	Ile	Leu	Phe	Ala	Asn	Leu	Phe	Ala	Pro	Leu	Phe
385					390					395					400
Asp	Tyr	Leu	Val	Val	Arg	Ala	Asn	Ile	Lys	Arg	Arg	Lys	Ala	Arg	Gly
			405						410					415	

<210> 6585

<211> 409

<212> PRT

<213> Enterobacter cloacae

<400> 6585

Gln	Met	Glu	Ile	Ile	Leu	Gly	Val	Val	Met	Phe	Thr	Leu	Ile	Val	Leu
1			5						10					15	
Val	Leu	Ser	Gly	Leu	Ile	Leu	Ala	Ala	Arg	Ala	Lys	Leu	Val	Asn	Ser
			20					25					30		
Gly	Asp	Val	Ile	Ile	Asp	Ile	Asn	Asp	Asp	Pro	Gln	Asn	Gln	Ile	Arg
	35					40						45			
Thr	Pro	Ala	Gly	Asp	Lys	Leu	Asn	Thr	Leu	Ser	Gly	Asn	Gly	Ile	
	50					55				60					
Phe	Val	Ser	Ser	Ala	Cys	Gly	Gly	Gly	Gly	Ser	Cys	Gly	Gln	Cys	Arg
65					70					75					80
Val	Thr	Val	Lys	Glu	Gly	Gly	Gly	Asp	Ile	Leu	Pro	Thr	Glu	Leu	Ser
			85						90					95	
His	Ile	Thr	Lys	Arg	Glu	Ala	Lys	Glu	Gly	Cys	Arg	Leu	Ala	Cys	Gln
			100					105					110		
Val	Ala	Val	Arg	Gln	Asn	Met	Lys	Ile	Glu	Leu	Pro	Glu	Glu	Ile	Phe
	115						120					125			
Gly	Val	Lys	Lys	Trp	Glu	Cys	Glu	Val	Ile	Ser	Asn	Asp	Asn	Lys	Ala
	130					135					140				
Thr	Phe	Ile	Lys	Glu	Leu	Lys	Leu	Arg	Val	Pro	Glu	Gly	Glu	Ser	Val
145					150					155					160
Pro	Phe	Arg	Ala	Gly	Gly	Tyr	Ile	Gln	Ile	Glu	Cys	Pro	Ala	His	Thr
			165						170					175	
Val	Ala	Tyr	Ala	Asp	Phe	Asp	Val	Pro	Glu	Glu	Tyr	Arg	Ala	Asp	Trp
			180					185					190		
Asp	Lys	Phe	Asn	Leu	Phe	Arg	Phe	Val	Ser	Glu	Val	Lys	Glu	Pro	Ala
	195						200					205			
Leu	Arg	Ala	Tyr	Ser	Met	Ala	Asn	Tyr	Pro	Glu	Glu	Lys	Gly	Ile	Ile
	210					215					220				
Met	Leu	Asn	Val	Arg	Ile	Ala	Thr	Pro	Pro	Pro	Asn	Val	Pro	Asp	Ala
225					230					235					240
Pro	Pro	Gly	Val	Met	Ser	Ser	Tyr	Ile	Trp	Ser	Leu	Lys	Pro	Gly	Asp
			245						250					255	
Lys	Val	Thr	Ile	Ser	Gly	Pro	Phe	Gly	Glu	Phe	Phe	Ala	Lys	Asp	Thr
			260					265					270		
Asp	Ala	Glu	Met	Val	Phe	Ile	Gly	Gly	Gly	Ala	Gly	Met	Ala	Pro	Met
		275					280					285			
Arg	Ser	His	Ile	Phe	Asp	Gln	Leu	Lys	Arg	Leu	Gly	Ser	Lys	Arg	Lys
	290					295					300				
Ile	Ser	Phe	Trp	Tyr	Gly	Ala	Arg	Ser	Leu	Arg	Glu	Met	Phe	Tyr	Asp
305					310					315					320
Asp	Glu	Phe	Glu	Gln	Leu	Ala	Arg	Asp	Asn	Pro	Asn	Phe	Thr	Phe	His
			325						330					335	
Val	Ala	Leu	Ser	Asp	Pro	Gln	Pro	Glu	Asp	Asn	Trp	Thr	Gly	Tyr	Thr
			340					345					350		
Gly	Phe	Ile	His	Asn	Val	Leu	Tyr	Glu	Asn	Tyr	Leu	Lys	Gln	His	Pro
		355					360					365			

Ala Pro Glu Asp Cys Glu Phe Tyr Met Cys Gly Pro Pro Met Met Asn
 370 375 380
 Ala Ala Val Ile Lys Met Leu Lys Asp Leu Gly Val Glu Asp Glu Asn
 385 390 395 400
 Ile Met Leu Asp Asp Phe Gly Gly
 405

<210> 6586

<211> 163

<212> PRT

<213> Enterobacter cloacae

<400> 6586

Ala Val Tyr Lys Gln Ala Gly Thr Leu His Met Ser Glu Lys Tyr Val
 1 5 10 15
 Val Thr Trp Asp Met Leu Gln Ile His Ala Arg Lys Leu Ala Ala Arg
 20 25 30
 Leu Met Pro Ser Glu Gln Trp Lys Gly Ile Ile Ala Val Ser Arg Gly
 35 40 45
 Gly Leu Val Pro Gly Ala Leu Leu Ala Arg Glu Leu Gly Ile Arg His
 50 55 60
 Val Asp Thr Val Cys Ile Ser Ser Tyr Asp His Asp Asn Gln Arg Glu
 65 70 75 80
 Leu Lys Val Leu Lys Arg Ala Glu Gly Asp Gly Glu Gly Phe Ile Val
 85 90 95
 Ile Asp Asp Leu Val Asp Thr Gly Gly Thr Ala Val Ala Ile Arg Glu
 100 105 110
 Met Tyr Pro Lys Ala His Phe Val Thr Ile Phe Ala Lys Pro Ala Gly
 115 120 125
 Arg Pro Leu Val Asp Asp Tyr Val Ile Asp Ile Pro Gln Asp Thr Trp
 130 135 140
 Ile Glu Gln Pro Trp Asp Met Gly Val Val Phe Val Pro Pro Ile Ser
 145 150 155 160
 Gly Arg

<210> 6587

<211> 483

<212> PRT

<213> Enterobacter cloacae

<400> 6587

Leu Ala Phe Arg Arg Ala Arg Arg Arg Ile Cys Cys Pro Trp Gln Gly
 1 5 10 15
 Leu Lys Trp Tyr Thr Pro Val Ser Leu Asp Cys Cys Ser Trp Ile Pro
 20 25 30
 Ala Asn His Met Phe Arg Ile Arg Lys Gly Leu Asp Leu Pro Ile Ser
 35 40 45
 Gly Val Pro Glu Gln His Val Thr Thr Gly Ala Ser Ile His His Val
 50 55 60
 Ala Ile Val Gly Asp Asp Tyr Val Gly Met Arg Pro Ala Met Leu Val
 65 70 75 80
 Gln Glu Gly Asp Arg Val Ile Lys Gly Gln Ala Leu Phe Glu Asp Lys
 85 90 95
 Lys Asn Pro Gly Val Met Phe Thr Ala Pro Ala Ser Gly Thr Val Val
 100 105 110
 Ala Ile His Arg Gly Glu Arg Arg Val Leu Gln Ser Val Val Ile Gln
 115 120 125
 Ile Glu Gly Asp Glu Lys Arg Glu Phe Ala Arg Phe Asp Ala Ala Asp
 130 135 140
 Leu Ala Thr Leu Ser His Asp Val Val Gln Thr Gln Leu Leu Glu Ser

145 150 155 160
 Gly Leu Trp Thr Ala Leu Arg Thr Arg Pro Tyr Ser Lys Thr Pro Val
 165 170 175
 Pro Gly Thr Val Pro Ala Ala Ile Phe Val Thr Ala Ile Asp Thr Asn
 180 185 190
 Pro Leu Ser Ala Asp Pro Gln Pro Leu Ile Leu Ala Glu Arg Lys Ala
 195 200 205
 Phe Asp Ala Gly Leu Ala Val Leu Thr Arg Leu Thr Pro Gly Lys Val
 210 215 220
 His Val Cys Gln Ala Cys Gly Gly Lys Leu Gly Gly His Pro Gln Gly
 225 230 235 240
 Gln Val Ala Phe Asn Glu Phe Ala Gly Pro His Pro Ala Gly Leu Val
 245 250 255
 Gly Thr His Ile His Phe Leu Glu Pro Val Ser Leu Thr Lys Gln Val
 260 265 270
 Trp His Leu Asn Tyr Gln Asp Val Ile Ala Ile Gly Lys Leu Phe Thr
 275 280 285
 Thr Gly Glu Leu Cys Ala Glu Arg Ile Ile Ala Ile Gly Gly Pro Gln
 290 295 300
 Ala Thr Gln Pro Arg Leu Val Arg Thr Leu Leu Gly Ala Asp Leu Thr
 305 310 315 320
 Ala Leu Leu Ala Gly Glu Thr Lys Glu Gly Glu Asn Arg Ile Ile Ser
 325 330 335
 Gly Ser Val Leu Ser Gly Arg His Ala Thr Gly Pro Met Ala Trp Leu
 340 345 350
 Gly Arg Phe His Leu Gln Val Ser Val Val Leu Glu Gly Arg Asp Lys
 355 360 365
 Glu Leu Phe Gly Trp Val Leu Pro Gly Ala Glu Lys Tyr Ser Val Thr
 370 375 380
 Arg Thr Thr Leu Gly His Phe Leu Arg His Lys Leu Phe Asn Phe Ser
 385 390 395 400
 Thr Ser Thr Asn Gly Gly Glu Arg Ala Met Val Pro Ile Gly Asn Tyr
 405 410 415
 Glu Arg Val Met Pro Leu Asp Ile Leu Pro Thr Val Leu Leu Arg Asp
 420 425 430
 Leu Leu Ala Gly Asp Thr Asp Gly Ala Gln Ala Leu Gly Cys Leu Glu
 435 440 445
 Leu Asp Glu Glu Asp Leu Ala Leu Cys Thr Tyr Val Cys Pro Gly Lys
 450 455 460
 Tyr Glu Tyr Gly Pro Val Leu Arg Glu Val Leu Thr Arg Ile Glu Gln
 465 470 475 480
 Glu Gly

<210> 6588

<211> 293

<212> PRT

<213> Enterobacter cloacae

<400> 6588

Cys Trp Pro Phe Cys Leu Pro Ile Cys Leu Arg Arg Cys Ser Thr Thr
 1 5 10 15
 Trp Ser Cys Ala Pro Thr Leu Asn Gly Gly Arg Arg Val Ala Glu Ile
 20 25 30
 Lys Asn Asn Asp Ser Ile Ser Lys Thr Leu Leu Val Val Leu Val Leu
 35 40 45
 Cys Leu Val Cys Ser Ile Val Val Ala Gly Ser Ala Val Gly Leu Lys
 50 55 60
 Pro Leu Gln Gln Glu Gln Arg Ala Leu Asp Lys Gln Arg Asn Ile Leu
 65 70 75 80
 Ala Val Ala Gly Leu Met Gln Glu Gly Met Thr Lys Asp Asp Val Ala

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<210> 6589
<211> 356
<212> PRT
<213> Enterobacter cloacae
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<400>	6589														
Gly	Leu	Thr	Met	Arg	Lys	Ile	Ile	His	Val	Asp	Met	Asp	Cys	Phe	Phe
1			5						10					15	
Ala	Ala	Val	Glu	Met	Arg	Asp	Asn	Pro	Ala	Leu	Arg	Asp	Ile	Pro	Ile
			20					25					30		
Ala	Ile	Gly	Gly	Ser	Arg	Val	Gln	Arg	Gly	Val	Ile	Ser	Thr	Ala	Asn
		35					40					45			
Tyr	Pro	Ala	Arg	Lys	Tyr	Gly	Val	Arg	Ser	Ala	Met	Pro	Thr	Ala	Met
	50					55					60				
Ala	Leu	Lys	Leu	Cys	Pro	His	Leu	Thr	Leu	Leu	Pro	Gly	Arg	Phe	Asp
65				70					75						80
Ala	Tyr	Lys	Glu	Ala	Ser	Ser	His	Ile	Arg	Glu	Ile	Phe	Ser	Arg	Tyr
				85					90					95	
Thr	Ser	Leu	Ile	Glu	Pro	Leu	Ser	Leu	Asp	Glu	Ala	Tyr	Leu	Asp	Val
			100					105					110		
Thr	His	Ser	Val	His	Cys	His	Gly	Ser	Ala	Thr	Leu	Met	Ala	Gln	Glu
		115					120					125			
Ile	Arg	Gln	Thr	Ile	Phe	Asn	Glu	Leu	Asn	Leu	Thr	Ala	Ser	Ala	Gly
	130					135					140				
Val	Ala	Pro	Val	Lys	Phe	Leu	Ala	Lys	Ile	Ala	Ser	Asp	Leu	Asn	Lys
145				150						155					160
Pro	Asn	Gly	Gln	Tyr	Val	Ile	Thr	Pro	Glu	Glu	Val	Ser	Ala	Phe	Leu
				165					170					175	
Lys	Thr	Leu	Pro	Leu	Ser	Lys	Ile	Pro	Gly	Val	Gly	Lys	Val	Ser	Ala
			180					185					190		
Ala	Lys	Leu	Glu	Ser	Met	Gly	Leu	Arg	Thr	Cys	Glu	Asp	Val	Gln	Arg
		195					200					205			
Ser	Asp	Leu	Ala	Leu	Leu	Leu	Lys	Arg	Phe	Gly	Lys	Phe	Gly	Arg	Val

210		215		220
Leu Trp Glu Arg Ser	Gln Gly Ile Asp Asp Arg	Asp Val Asn Asn Glu		
225	230	235	240	
Arg Leu Arg Lys Ser	Val Gly Val Glu Arg Thr	Leu Ser Glu Asp Ile		
	245	250	255	
His Asp Trp Thr Glu	Cys Glu Thr Ile Ile Thr	Glu Gln Leu Tyr Pro		
	260	265	270	
Glu Leu Glu Arg Arg	Leu Leu Lys Val Lys Pro	Asp Leu Leu Ile Ala		
	275	280	285	
Arg Gln Gly Ile Lys	Leu Lys Phe Asn Asp Phe	Gln Gln Thr Thr Gln		
	290	295	300	
Glu His Val Trp Pro	Arg Leu Asn Lys Glu Asp	Leu Ile Ala Thr Ala		
305	310	315	320	
Lys Lys Ala Trp Glu	Arg Arg Gly Gly Arg	Gly Val Arg Leu Val		
	325	330	335	
Gly Leu His Val Thr	Leu Leu Asp Pro Gln	Leu Glu Arg Gln Leu	Val	
	340	345	350	
Leu Gly Leu				
355				

<210> 6590

<211> 214

<212> PRT

<213> Enterobacter cloacae

<400> 6590

Ile Met Ala Asp Thr	Gly Glu Leu Lys	Glu Val Lys Lys	Val Leu Ile
1	5	10	15
Gly Pro Leu Leu Ala	Asn Asn Pro Ile	Thr Leu Gln Val	Leu Gly Val
	20	25	30
Cys Ser Ala Leu Ala	Val Thr Thr Lys	Leu Glu Thr Ala	Val Val Met
	35	40	45
Thr Leu Ala Val Thr	Leu Val Thr Ala	Phe Ser Ser Met	Phe Ile Ser
	50	55	60
Met Ile Arg His His	Ile Pro Asn Ser	Val Arg Ile Ile	Val Gln Met
	65	70	75
Ala Ile Ile Ala Ser	Leu Val Ile Val	Val Asp Gln Leu	Leu Arg Ala
	85	90	95
Phe Ala Tyr Glu Thr	Ser Lys Gln Leu	Ser Val Phe Val	Gly Leu Ile
	100	105	110
Ile Thr Asn Cys Ile	Val Met Gly Arg	Ala Glu Ala Tyr	Ala Met Lys
	115	120	125
Met Pro Pro Leu Ala	Ser Phe Met Asp	Gly Ile Gly Asn	Gly Leu Gly
	130	135	140
Tyr Gly Val Ile Leu	Leu Thr Val Gly	Phe Leu Arg Glu	Leu Ile Gly
	145	150	155
Ser Gly Lys Leu Phe	Gly Ile Pro Val	Leu Asp Thr Val	Gln Asn Gly
	165	170	175
Gly Trp Tyr Leu Pro	Asn Gly Leu Phe	Leu Leu Ala Pro	Ser Ala Phe
	180	185	190
Phe Ile Ile Gly Leu	Leu Ile Trp Leu	Ile Arg Thr Leu	Lys Pro Glu
	195	200	205
Gln Gln Glu Lys Glu			
210			

<210> 6591

<211> 201

<212> PRT

<213> Enterobacter cloacae

<400> 6591

Pro Thr Met Ala His Tyr Leu Ser Leu Phe Val Arg Ala Val Phe Val
 1 5 10 15
 Glu Asn Met Ala Leu Ala Phe Phe Leu Gly Met Cys Thr Phe Leu Ala
 20 25 30
 Val Ser Lys Lys Val Ser Thr Ala Phe Gly Leu Gly Val Ala Val Thr
 35 40 45
 Val Val Leu Gly Leu Ser Val Pro Ile Asn Asn Leu Val Phe Asn Phe
 50 55 60
 Val Leu Arg Asp Gly Ala Leu Val Glu Gly Val Asp Leu Ser Phe Leu
 65 70 75 80
 Asn Phe Ile Thr Phe Ile Gly Val Ile Ala Ala Leu Val Gln Ile Leu
 85 90 95
 Glu Met Ile Leu Asp Lys Tyr Phe Pro Ser Leu Tyr Asn Ala Leu Gly
 100 105 110
 Ile Phe Leu Pro Leu Ile Ala Val Asn Cys Ala Ile Phe Gly Gly Val
 115 120 125
 Ser Phe Met Val Gln Arg Asp Tyr Asn Phe Ser Glu Ser Val Val Tyr
 130 135 140
 Gly Phe Gly Ser Gly Ile Gly Trp Met Leu Ala Ile Val Thr Met Ala
 145 150 155 160
 Gly Ile Arg Glu Lys Met Lys Tyr Ala Asn Val Pro Ala Gly Leu Arg
 165 170 175
 Gly Leu Gly Ile Thr Phe Ile Thr Thr Gly Leu Met Ala Leu Gly Phe
 180 185 190
 Met Ser Phe Ser Gly Val Gln Leu
 195 200

<210> 6592

<211> 72

<212> PRT

<213> Enterobacter cloacae

<400> 6592

Phe Arg Arg Leu Ile Met Leu Thr Phe Leu Ala Thr Phe Ala Val Phe
 1 5 10 15
 Val Leu Val Ile Phe Gly Met Ser Leu Gly Trp Ile Ile Lys Arg Lys
 20 25 30
 Ser Ile Gln Gly Ser Cys Gly Gly Ile Ser Ser Ile Gly Met Glu Lys
 35 40 45
 Val Cys Asp Cys Pro Glu Pro Cys Asp Ala Arg Lys Lys Arg Met Ala
 50 55 60
 Arg Glu Gln Gln Arg Ile Ile
 65 70

<210> 6593

<211> 186

<212> PRT

<213> Enterobacter cloacae

<400> 6593

Pro Ala Thr Leu Phe Cys Ser Ala Ser Thr Arg Arg Pro Ile Val Ser
 1 5 10 15
 Glu Leu Ser Gln Leu Ser Pro Gln Pro Leu Trp Asp Ile Phe Ala Lys
 20 25 30
 Ile Cys Ser Ile Pro His Pro Ser Tyr His Glu Glu Gln Leu Ala Glu
 35 40 45
 His Ile Met Gly Trp Ala Lys Glu Lys Gly Leu His Ala Glu Arg Asp
 50 55 60
 Gln Val Gly Asn Ile Leu Ile Arg Lys Pro Ala Thr Ala Gly Met Glu
 65 70 75 80
 Asn Arg Lys Pro Val Val Leu Gln Ala His Leu Asp Met Val Pro Gln

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<210> 6594
<211> 314
<212> PRT
<213> Enterobacter cloacae
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<400> 6594															
Gln 1	Gly	Glu	Ile	Tyr 5	Met	Gly	Cys	Ala	Gly 10	Gly	Ile	Asp	Phe	Ile 15	Ser
Thr	Leu	Pro	Leu 20	Ser	Arg	Glu	Ala 25	Ile	Pro	Ala	Gly	Phe 30	Glu	Thr	Phe
Lys	Leu	Thr 35	Leu	Lys	Gly	Leu	Lys 40	Gly	Gly	His	Ser 45	Gly	Asp	Ile	
His 50	Leu	Gly	Leu	Gly	Asn 55	Ala	Asn	Lys	Leu	Leu	Ala 60	Arg	Phe	Leu	Ala
Gly 65	His	Ala	Ala	Glu 70	Leu	Asp	Leu	Arg	Leu	Val 75	Asp	Phe	Asn	Gly 80	Gly
Thr	Leu	Arg	Asn 85	Ala	Ile	Pro	Arg	Glu 90	Ala	Phe	Ala	Thr	Leu 95	Ala	Val
Pro	Ala	Ser	Lys 100	Ala	Asp	Glu	Leu	Lys 105	Asn	Leu	Ser	Ser	Val 110	Tyr	Leu
Glu	Ile	Leu 115	Lys	Asn	Glu	Leu	Ser 120	Ala	Lys	Glu	Lys	Asn 125	Leu	Thr	Val
Val 130	Leu	Glu	Ser	Val	Thr	Thr 135	Asp	Lys	Ala	Ala	Leu 140	Thr	Ala	Gln	Ser
Arg 145	Asp	Thr	Phe	Val 150	Gln	Leu	Leu	Asn	Ala	Thr 155	Pro	Asn	Gly	Val 160	Ile
Arg	Asn	Ser	Asp 165	Val	Ala	Lys	Gly	Val 170	Val	Glu	Thr	Ser	Leu 175	Asn	Val
Gly	Val	Val 180	Thr	Met	Gly	Asp	Asp 185	Ser	Ala	Glu	Ile	Ile 190	Cys	Leu	Ile
Arg	Ser	Leu 195	Ile	Asp	Ser	Gly	Lys 200	Glu	Tyr	Val	Val 205	Ser	Met	Leu	Glu
Ser 210	Leu	Gly	Thr	Leu	Ala	Gly 215	Ala	Lys	Thr	Ser	Ala 220	Lys	Gly	Ser	Tyr
Pro 225	Gly	Trp	Gln	Pro	Asp 230	Ala	Ser	Ser	Pro	Val 235	Met	Ala	Leu	Val	Arg
Glu	Thr	Tyr	Gln 245	Arg	Leu	Phe	Asn	Ser 250	Thr	Pro	Asn	Ile	Gln 255	Val	Ile
His	Ala	Gly	Leu 260	Glu	Cys	Gly	Leu	Phe 265	Lys	Lys	Pro	Tyr	Pro 270	Asp	Met
Asp	Met	Val 275	Ser	Ile	Gly	Pro	Thr 280	Ile	Thr	Gly	Pro	His 285	Ser	Pro	Asp
Glu	Gln	Val 290	His	Ile	Glu	Ser 295	Val	Gly	His	Tyr	Trp 300	Thr	Leu	Leu	Thr
Glu 305	Leu	Leu	Lys	Ala	Ile 310	Pro	Ala	Lys							

<210> 6595
 <211> 567
 <212> PRT
 <213> Enterobacter cloacae

<400> 6595

Tyr	Cys	Leu	Arg	Gly	Cys	Pro	Ala	Pro	Val	Val	Lys	Thr	Ile	Glu	Gln
1				5					10					15	
Met	Arg	Leu	Ser	Ala	Thr	Lys	Ala	Leu	Leu	Glu	Arg	Arg	Asp	Val	Val
			20					25					30		
Val	Val	Ala	Ser	Val	Ser	Ala	Ile	Tyr	Gly	Leu	Gly	Asp	Pro	Asp	Leu
		35					40					45			
Tyr	Leu	Lys	Met	Met	Leu	His	Leu	Thr	Gln	Gly	Met	Ile	Ile	Asp	Gln
	50					55					60				
Arg	Ala	Ile	Leu	Arg	Arg	Leu	Ala	Glu	Leu	Gln	Tyr	Thr	Arg	Asn	Asp
65				70						75					80
Gln	Ala	Phe	Gln	Arg	Gly	Thr	Phe	Arg	Val	Arg	Gly	Glu	Val	Ile	Asp
			85						90					95	
Ile	Phe	Pro	Ala	Glu	Ser	Asp	Asp	Met	Ala	Leu	Arg	Val	Glu	Leu	Phe
			100					105					110		
Asp	Glu	Glu	Val	Glu	Arg	Leu	Ser	Leu	Phe	Asp	Pro	Leu	Thr	Gly	His
		115					120					125			
Val	Glu	Ser	Val	Ile	Gln	Arg	Phe	Thr	Ile	Tyr	Pro	Lys	Thr	His	Tyr
	130					135					140				
Val	Thr	Pro	Arg	Glu	Arg	Ile	Val	Gln	Ala	Met	Glu	Glu	Ile	Lys	Ile
145					150					155					160
Glu	Leu	Ala	Asp	Arg	Arg	Lys	Val	Leu	Leu	Ala	Asn	Asn	Lys	Leu	Leu
			165					170						175	
Glu	Glu	Gln	Arg	Leu	Ser	Gln	Arg	Thr	Gln	Phe	Asp	Leu	Glu	Met	Met
			180					185					190		
Asn	Glu	Leu	Gly	Tyr	Cys	Ser	Gly	Ile	Glu	Asn	Tyr	Ser	Arg	Tyr	Leu
		195					200					205			
Ser	Gly	Arg	Gly	Pro	Gly	Glu	Ala	Pro	Pro	Thr	Leu	Phe	Asp	Tyr	Leu
	210				215						220				
Pro	Ala	Asp	Gly	Leu	Leu	Val	Ile	Asp	Glu	Ser	His	Val	Thr	Ile	Pro
225					230					235					240
Gln	Ile	Gly	Gly	Met	Tyr	Arg	Gly	Asp	Arg	Ala	Arg	Lys	Glu	Thr	Leu
			245					250						255	
Val	Glu	Tyr	Gly	Phe	Arg	Leu	Pro	Ser	Ala	Leu	Asp	Asn	Arg	Pro	Met
			260					265					270		
Lys	Phe	Glu	Glu	Phe	Glu	Ala	Leu	Ala	Pro	Gln	Thr	Ile	Tyr	Val	Ser
		275				280						285			
Ala	Thr	Pro	Gly	Asn	Tyr	Glu	Leu	Glu	Lys	Ser	Gly	Asp	Asp	Val	Val
	290					295					300				
Asp	Gln	Val	Val	Arg	Pro	Thr	Gly	Leu	Leu	Asp	Pro	Ile	Ile	Glu	Val
305					310					315					320
Arg	Pro	Val	Ala	Thr	Gln	Val	Asp	Asp	Leu	Leu	Ser	Glu	Ile	Arg	Ala
			325						330					335	
Arg	Ser	Ala	Ile	Asn	Glu	Arg	Val	Leu	Val	Thr	Thr	Leu	Thr	Lys	Arg
			340					345					350		
Met	Ala	Glu	Asp	Leu	Thr	Glu	Tyr	Leu	Glu	Glu	His	Gly	Glu	Lys	Val
		355				360						365			
Arg	Tyr	Leu	His	Ser	Asp	Ile	Asp	Thr	Val	Glu	Arg	Met	Glu	Ile	Ile
	370					375						380			
Arg	Asp	Leu	Arg	Leu	Gly	Glu	Phe	Asp	Val	Leu	Val	Gly	Ile	Asn	Leu
385					390					395					400
Leu	Arg	Glu	Gly	Leu	Asp	Met	Pro	Glu	Val	Ser	Leu	Val	Ala	Ile	Leu
			405						410					415	
Asp	Ala	Asp	Lys	Glu	Gly	Phe	Leu	Arg	Ser	Glu	Arg	Ser	Leu	Ile	Gln
		420						425					430		
Thr	Ile	Gly	Arg	Ala	Ala	Arg	Asn	Val	Asn	Gly	Lys	Ala	Ile	Leu	Tyr

	435		440		445										
Gly	Asp	Lys	Ile	Thr	Pro	Ser	Met	Ala	Lys	Ala	Ile	Gly	Glu	Thr	Glu
	450					455					460				
Arg	Arg	Arg	Glu	Lys	Gln	Gln	Arg	Tyr	Asn	Glu	Glu	His	Gly	Ile	Thr
465					470					475					480
Pro	Gln	Gly	Leu	Asn	Lys	Lys	Val	Val	Asp	Ile	Leu	Ala	Leu	Gly	Gln
			485						490					495	
Asn	Ile	Ala	Lys	Thr	Lys	Ala	Lys	Gly	Arg	Gly	Lys	Ala	Arg	Ser	Val
		500						505					510		
Val	Glu	Glu	Asp	Thr	Val	Ala	Leu	Thr	Pro	Lys	Ala	Leu	Gln	Gln	Lys
	515						520					525			
Ile	His	Glu	Leu	Glu	Gly	Gln	Met	Met	Gln	His	Ala	Gln	Asn	Leu	Glu
	530					535					540				
Phe	Glu	Glu	Ala	Ala	Gln	Ile	Arg	Asp	Gln	Leu	His	Gln	Leu	Arg	Asp
545					550					555					560
Leu	Phe	Ile	Ala	Ala	Ser										
				565											

<210> 6596
 <211> 84
 <212> PRT
 <213> Enterobacter cloacae

<400> 6596
 Lys Ala Met Ile Lys Val Leu Phe Phe Ala Gln Val Arg Glu Leu Val
 1 5 10 15
 Asn Thr Asp Ser Leu Thr Leu Asp Gly Ser Phe Glu Asn Val Ala Ala
 20 25 30
 Leu Arg Ala His Leu Ala Ala Gln Gly Asp Arg Trp Ala Leu Ala Leu
 35 40 45
 Asp Glu Gly Lys Leu Leu Ala Val Asn Gln Thr Leu Val Glu Leu
 50 55 60
 Thr His Pro Leu Ala Asp Gly Asp Glu Val Ala Phe Phe Pro Pro Val
 65 70 75 80
 Thr Gly Gly

<210> 6597
 <211> 148
 <212> PRT
 <213> Enterobacter cloacae

<400> 6597
 Ile Ser Arg Glu Lys Ser Phe Arg Arg Glu Ala Met Lys Trp Gln Gln
 1 5 10 15
 Arg Val Arg Val Ala Thr Gly Leu Ser Cys Trp Gln Ile Met Leu His
 20 25 30
 Leu Leu Val Val Ala Val Leu Val Met Gly Trp Met Ser Gly Thr Leu
 35 40 45
 Val Arg Val Gly Leu Gly Leu Cys Val Val Tyr Gly Val Thr Val Leu
 50 55 60
 Ser Met Leu Phe Leu Gln Arg His His Asp Ala Arg Trp Arg Glu Val
 65 70 75 80
 Gly Asp Val Leu Glu Glu Leu Thr Thr Thr Trp Tyr Phe Gly Ala Ala
 85 90 95
 Met Ile Val Leu Trp Leu Leu Ser Arg Val Leu Gln Asn Asn Leu Leu
 100 105 110
 Leu Ala Leu Ala Gly Leu Ala Ile Leu Ala Gly Pro Ala Val Val Ser
 115 120 125
 Leu Leu Thr Lys Glu Lys Lys Leu Arg Asp Val Ser Ser Lys His Arg
 130 135 140

Ile Gly His
145

<210> 6598

<211> 171

<212> PRT

<213> Enterobacter cloacae

<400> 6598

Pro	Thr	Arg	Trp	Pro	Met	Gly	Thr	Lys	Trp	Pro	Ser	Ser	Arg	Arg	Ser
1				5					10					15	
Gln	Gly	Val	Lys	Met	Thr	Glu	Thr	Arg	Ile	Leu	Val	Gly	Pro	Glu	Arg
			20					25					30		
Phe	Ser	Val	Gly	Thr	Glu	Tyr	Ser	Trp	Leu	Ala	Glu	Arg	Asp	Glu	Asp
		35					40					45			
Gly	Ala	Val	Val	Thr	Phe	Thr	Gly	Lys	Val	Arg	Asn	His	Asn	Leu	Gly
	50					55					60				
Asp	Ser	Val	Lys	Ala	Leu	Thr	Leu	Glu	His	Tyr	Pro	Gly	Met	Thr	Glu
65					70					75					80
Lys	Ser	Leu	Ala	Ala	Ile	Val	Glu	Glu	Ala	Arg	Gly	Arg	Trp	Pro	Leu
				85					90					95	
Gly	Arg	Val	Thr	Val	Ile	His	Arg	Ile	Gly	Glu	Met	Trp	Pro	Gly	Glu
			100					105					110		
Glu	Ile	Val	Phe	Val	Gly	Val	Thr	Ser	Ala	His	Arg	Gly	Ser	Ala	Phe
		115					120					125			
Ala	Ala	Gly	Glu	Phe	Ile	Met	Asp	Tyr	Leu	Lys	Thr	Lys	Ala	Pro	Phe
		130				135						140			
Trp	Lys	Arg	Glu	Ala	Thr	Pro	Glu	Gly	Glu	Arg	Trp	Val	Glu	Ser	Arg
145					150					155					160
Asp	Ser	Asp	Lys	His	Ala	Ala	Ser	Arg	Trp						
				165					170						

<210> 6599

<211> 404

<212> PRT

<213> Enterobacter cloacae

<400> 6599

Lys	Cys	Thr	Ile	Thr	Ser	Leu	Cys	Ile	Asn	Leu	Tyr	Ser	Glu	Lys	Arg
1				5					10					15	
Gln	Trp	Arg	Ser	Gly	Asp	Phe	His	Ala	Thr	Ile	Ala	Ile	Thr	Thr	Phe
			20					25					30		
Ser	Lys	Leu	Lys	Thr	Tyr	Thr	Leu	Ala	Leu	Ala	Pro	Val	Ser	Arg	Asp
		35					40					45			
Met	Ala	Pro	Trp	Pro	Trp	Arg	Ile	Cys	His	Gln	Gly	Thr	Glu	Arg	Asn
	50					55					60				
Asp	Cys	Ala	Ser	Arg	Ser	Gly	Lys	Val	Tyr	Met	Ala	Ser	Gln	Leu	Thr
65					70					75					80
Asp	Ala	Phe	Ala	Arg	Lys	Phe	Tyr	Tyr	Leu	Arg	Leu	Ser	Ile	Thr	Asp
				85					90					95	
Val	Cys	Asn	Phe	Arg	Cys	Thr	Tyr	Cys	Leu	Pro	Asp	Gly	Tyr	Lys	Pro
			100					105					110		
Gly	Ser	Val	Thr	Asn	Asn	Gly	Phe	Leu	Ser	Val	Asp	Glu	Val	Arg	Arg
		115					120					125			
Val	Thr	Arg	Ala	Phe	Ser	Glu	Leu	Gly	Thr	Glu	Lys	Val	Arg	Leu	Thr
	130					135					140				
Gly	Gly	Glu	Pro	Ser	Leu	Arg	Arg	Asp	Phe	Pro	Asp	Ile	Ile	Ala	Ala
145					150					155					160
Val	Arg	Glu	Asn	Glu	Arg	Ile	Arg	Gln	Ile	Ala	Val	Thr	Thr	Asn	Gly
			165					170						175	
Tyr	Arg	Met	Ala	Arg	Asp	Val	Ala	Asn	Trp	Arg	Asp	Ala	Gly	Leu	Thr

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<210> 6600
<211> 179
<212> PRT
<213> Enterobacter cloacae
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[illegible]

<210> 6601
 <211> 163
 <212> PRT
 <213> Enterobacter cloacae

<400> 6601

Ala	Met	Ser	Gln	Leu	Thr	His	Ile	Asn	Ala	Ala	Gly	Glu	Ala	His	Met
1			5					10						15	
Val	Asp	Val	Ser	Ala	Lys	Ala	Glu	Thr	Val	Arg	Glu	Ala	Arg	Ala	Glu
			20				25						30		
Ala	Phe	Ile	Thr	Met	Leu	Pro	Glu	Thr	Leu	Ala	Met	Ile	Ile	Asp	Gly
		35					40					45			
Ser	His	His	Lys	Gly	Asp	Val	Phe	Ala	Thr	Ala	Arg	Ile	Ala	Gly	Ile
	50					55					60				
Gln	Ala	Ala	Lys	Arg	Thr	Trp	Asp	Leu	Ile	Pro	Leu	Cys	His	Pro	Leu
65					70					75					80
Met	Leu	Ser	Lys	Val	Glu	Val	Asn	Leu	Gln	Ala	Gln	Pro	Ala	His	Asn
				85					90					95	
Arg	Val	Arg	Ile	Glu	Ser	Leu	Cys	Arg	Leu	Thr	Gly	Lys	Thr	Gly	Val
			100					105						110	
Glu	Met	Glu	Ala	Leu	Thr	Ala	Ala	Ser	Val	Ala	Ala	Leu	Thr	Ile	Tyr
		115					120					125			
Asp	Met	Cys	Lys	Ala	Val	Gln	Lys	Asp	Met	Val	Ile	Gly	Pro	Val	Arg
	130					135					140				
Leu	Leu	Ala	Lys	Ser	Gly	Gly	Lys	Ser	Gly	Asp	Phe	Lys	Val	Glu	Ser
145					150					155					160
His	Asp														

<210> 6602
 <211> 237
 <212> PRT
 <213> Enterobacter cloacae

<400> 6602

Ile	Met	Asp	Arg	Phe	Pro	Arg	Ser	Asp	Ser	Ile	Val	Gln	Gln	Thr	Arg
1				5					10					15	
Ser	Gly	Leu	Gln	Thr	Tyr	Met	Ala	Gln	Val	Tyr	Gly	Trp	Met	Thr	Val
			20					25					30		
Gly	Leu	Leu	Leu	Thr	Ala	Phe	Ile	Ala	Trp	Tyr	Ala	Ala	Asn	Thr	Pro
		35					40					45			
Glu	Leu	Met	Met	Phe	Ile	Phe	Ser	Ser	Lys	Ile	Thr	Phe	Phe	Gly	Leu
	50					55					60				
Ile	Ile	Ala	Gln	Leu	Ala	Leu	Val	Phe	Val	Leu	Ser	Gly	Leu	Val	His
65				70						75					80
Lys	Leu	Ser	Ser	Gly	Met	Ala	Thr	Thr	Leu	Phe	Met	Leu	Tyr	Ser	Ala
				85					90					95	
Leu	Thr	Gly	Leu	Thr	Leu	Ser	Ser	Ile	Phe	Ile	Val	Tyr	Thr	Tyr	Ser
			100					105						110	
Ser	Ile	Ala	Ser	Thr	Phe	Val	Val	Thr	Gly	Gly	Met	Phe	Gly	Val	Met
		115					120					125			
Ser	Leu	Tyr	Gly	Tyr	Thr	Thr	Lys	Arg	Asp	Leu	Ser	Gly	Phe	Gly	Asn
	130					135					140				
Met	Leu	Phe	Met	Gly	Leu	Ile	Gly	Ile	Val	Leu	Ala	Ser	Leu	Val	Asn
145					150					155					160
Leu	Trp	Leu	Lys	Ser	Asp	Ala	Leu	Met	Trp	Ala	Val	Thr	Tyr	Ile	Gly
				165					170					175	
Val	Val	Ile	Phe	Val	Gly	Leu	Thr	Ala	Tyr	Asp	Thr	Gln	Lys	Leu	Lys
			180					185					190		
Asn	Ile	Gly	Glu	Gln	Ile	Asp	Val	Arg	Asp	Ser	Ser	Asn	Leu	Arg	Lys
		195					200						205		

Tyr Ser Ile Leu Gly Ala Leu Thr Leu Tyr Leu Asp Phe Ile Asn Leu
 210 215 220
 Phe Leu Met Leu Leu Arg Ile Phe Gly Asn Arg Arg
 225 230 235

<210> 6603

<211> 432

<212> PRT

<213> Enterobacter cloacae

<400> 6603

Lys Ala Arg Gly Pro Asn Phe Pro Arg Gly Glu Asn Phe Gly Gly Gln
 1 5 10 15
 Val Ala Asn Pro Phe Ser Gly Gly Gly Glu Phe Pro Gly Gly Ala Asp
 20 25 30
 Phe Gln Thr Arg Cys Phe Lys Gly Val Gly Arg Gly Ser Leu Phe Gly
 35 40 45
 Trp Glu Gly Gly Glu Thr His Thr Gly Gly Trp Ile Arg Gly Arg Ala
 50 55 60
 Phe Phe Arg Gly Tyr Gly Pro Leu Ile Ala Lys Gly Arg Gln Ser Met
 65 70 75 80
 Val Arg Glu Arg Arg Thr Arg Ala Ile Met Gly Leu Pro Val Leu Val
 85 90 95
 Pro Val Val Leu Phe Arg Phe Ala Pro Thr Val Glu Val Thr Thr Ala
 100 105 110
 Thr Phe Ala Ile Tyr Asn Glu Asp Asn Gly Lys His Ser Val Glu Leu
 115 120 125
 Thr Gln Arg Phe Ala Arg Ala Lys Ala Phe Thr His Val Leu Leu Leu
 130 135 140
 Gln Ser Pro Gln Ala Ile Gln Pro Thr Ile Asp Thr Gln Lys Ala Leu
 145 150 155 160
 Leu Leu Val Arg Phe Pro Ala Asp Phe Ser Arg Asn Leu Asp Thr Phe
 165 170 175
 Gln Thr Ala Pro Met Gln Leu Ile Leu Asp Gly Arg Asn Ser Asn Ser
 180 185 190
 Ala Gln Ile Ala Ala Asn Tyr Leu Gln Gln Val Val Lys Asp Tyr Gln
 195 200 205
 Gln Glu Leu Met Asp Gly Lys Pro Lys Pro Asn Asn Ser Glu Leu Val
 210 215 220
 Val Arg Asn Trp Tyr Asn Pro Asn Leu Asp Tyr Lys Trp Phe Val Val
 225 230 235 240
 Pro Ser Leu Ile Ala Met Ile Thr Thr Ile Gly Val Met Ile Val Thr
 245 250 255
 Ser Leu Ser Val Ala Arg Glu Arg Glu Gln Gly Thr Leu Asp Gln Leu
 260 265 270
 Leu Val Ser Pro Leu Ala Thr Trp Gln Ile Phe Val Gly Lys Ala Val
 275 280 285
 Pro Ala Leu Ile Val Ala Thr Phe Gln Ala Thr Ile Val Leu Gly Val
 290 295 300
 Gly Ile Trp Ala Tyr Gln Ile Pro Phe Ala Gly Ser Leu Ala Leu Phe
 305 310 315 320
 Tyr Phe Thr Met Val Ile Tyr Gly Leu Ser Leu Val Gly Phe Gly Leu
 325 330 335
 Leu Ile Ser Ala Leu Cys Ser Thr Gln Gln Gln Ala Phe Ile Gly Val
 340 345 350
 Phe Val Phe Met Met Pro Ala Ile Leu Leu Ser Gly Tyr Val Ser Pro
 355 360 365
 Val Glu Asn Met Pro Val Trp Leu Gln Asp Leu Thr Trp Ile Asn Pro
 370 375 380
 Ile Arg His Phe Thr Asp Ile Thr Lys Gln Ile Tyr Leu Lys Asp Ala
 385 390 395 400

Ser Leu Asp Ile Val Trp Gly Ser Leu Trp Pro Leu Leu Val Ile Ala
 405 410 415
 Ala Thr Thr Gly Ser Val Ala Tyr Ala Met Phe Arg Arg Asn Ile Ala
 420 425 430

<210> 6604

<211> 385

<212> PRT

<213> Enterobacter cloacae

<400> 6604

Val His Gly Ala Glu Thr Glu Leu Val Glu Arg Gly His Arg Arg Gly
 1 5 10 15
 Gly Val Pro Leu Pro Ala Pro Leu Pro Gly His Gly Gly Leu Ala Ala
 20 25 30
 Arg Ala Tyr Ala Glu Thr Gly Ala Gly Gly Ser Ala Cys Ala Thr Arg
 35 40 45
 Asn Gly Asn Pro Gly Pro Arg Arg Gly Gly Arg Trp Arg Glu Asn Leu
 50 55 60
 Met Ser Lys Ser His Pro Arg Trp Arg Leu Ala Lys Lys Ile Leu Thr
 65 70 75 80
 Trp Leu Phe Phe Ile Ala Val Ala Val Leu Leu Val Val Tyr Ala Gln
 85 90 95
 Lys Val Asp Trp Glu Glu Val Trp Lys Val Ile Arg Asn Tyr Asn Arg
 100 105 110
 Thr Val Leu Leu Gly Ala Val Gly Leu Val Ile Val Ser Tyr Leu Met
 115 120 125
 Tyr Gly Cys Tyr Asp Leu Leu Gly Arg Ala Tyr Cys Gly His Lys Leu
 130 135 140
 Ala Lys Arg Gln Val Met Leu Val Ser Phe Ile Cys Tyr Ala Phe Asn
 145 150 155 160
 Leu Thr Leu Ser Thr Trp Val Gly Gly Ile Gly Met Arg Tyr Arg Leu
 165 170 175
 Tyr Ser Arg Leu Gly Leu Pro Gly Gly Thr Ile Thr Arg Ile Phe Ser
 180 185 190
 Leu Ser Ile Thr Thr Asn Trp Leu Gly Tyr Ile Leu Leu Gly Gly Val
 195 200 205
 Ile Phe Thr Ile Gly Val Val Gln Leu Pro Ala His Trp Tyr Ile Asp
 210 215 220
 Glu Ala Thr Leu Arg Ile Leu Gly Ile Val Leu Leu Leu Ile Ile Ala
 225 230 235 240
 Ala Tyr Leu Trp Ala Cys Ala Phe Ala Lys Arg Arg His Met Thr Ile
 245 250 255
 Lys Gly Gln Lys Leu Val Leu Pro Ser Trp Lys Phe Ala Val Leu Gln
 260 265 270
 Met Val Val Ser Ser Ala Asn Trp Met Ala Met Gly Ala Ile Ile Trp
 275 280 285
 Leu Leu Ile Gly Glu Asp Val Asn Tyr Phe Phe Val Leu Gly Val Leu
 290 295 300
 Leu Val Ser Ser Ile Ala Gly Val Ile Val His Ile Pro Ala Gly Ile
 305 310 315 320
 Gly Val Leu Glu Ala Val Phe Ile Ala Leu Leu Ala Gly Glu His Val
 325 330 335
 Ser His Gly Thr Ile Ile Ala Ala Leu Leu Ala Tyr Arg Met Ile Tyr
 340 345 350
 Tyr Phe Leu Pro Leu Ala Leu Ala Thr Val Cys Tyr Leu Val Leu Glu
 355 360 365
 Ser Arg Ala Lys Lys Leu Arg Ala Lys Asn Glu Lys Ala Met Ala Lys
 370 375 380

<210> 6605
 <211> 306
 <212> PRT
 <213> Enterobacter cloacae

<400> 6605

Gly Ile Gly Met Arg Asn Arg Thr Phe Ala Asp Leu Asp Arg Val Val
 1 5 10 15
 Ala Leu Gly Gly Gly His Gly Leu Gly Arg Val Met Ser Ser Leu Ser
 20 25 30
 Ser Leu Gly Ser Arg Leu Thr Gly Ile Val Thr Thr Thr Asp Asn Gly
 35 40 45
 Gly Ser Thr Gly Arg Ile Arg Arg Ala Glu Gly Gly Ile Ala Trp Gly
 50 55 60
 Asp Met Arg Asn Cys Leu Asn Gln Leu Ile Thr Glu Pro Ser Val Ala
 65 70 75 80
 Ser Ala Met Phe Glu Tyr Arg Phe Gly Gly Asn Gly Glu Leu Ser Gly
 85 90 95
 His Asn Leu Gly Asn Leu Met Leu Lys Ala Leu Asp His Leu Ser Val
 100 105 110
 Arg Pro Leu Glu Ala Ile Asn Leu Ile Arg Asn Leu Leu Lys Val Asp
 115 120 125
 Ala Phe Leu Ile Pro Met Ser Glu Gln Pro Val Asp Leu Met Ala Ile
 130 135 140
 Asp Ala Asp Asp His Glu Val Tyr Gly Glu Val Asn Ile Asp Gln Leu
 145 150 155 160
 Leu Leu Pro Pro Lys Glu Leu Met Thr Tyr Pro Ser Val Pro Ala Thr
 165 170 175
 Arg Glu Ala Val Glu Ala Ile Gly Glu Ala Asp Leu Ile Leu Ile Gly
 180 185 190
 Pro Gly Ser Phe Tyr Thr Ser Leu Met Pro Ile Leu Leu Val Lys Glu
 195 200 205
 Leu Ala Gln Ala Leu Arg Arg Thr Pro Ala Pro Met Val Tyr Ile Gly
 210 215 220
 Asn Leu Gly Arg Glu Leu Ser Pro Ala Ala Ala Ser Leu Ser Leu Ala
 225 230 235 240
 Asp Lys Leu Asp Leu Met Glu Gln Tyr Val Gly Lys Lys Ile Ile Asp
 245 250 255
 Gly Val Val Val Gly Pro Lys Val Asp Val Ser Gly Ile Gly Asp Arg
 260 265 270
 Val Val Val Gln Glu Pro Leu Glu Ala Ser Asp Ile Lys Tyr Arg His
 275 280 285
 Asp Arg His Leu Leu Arg Glu Ala Leu Glu Lys Ala Ile Gln Ala Leu
 290 295 300
 Gly
 305

<210> 6606
 <211> 102
 <212> PRT
 <213> Enterobacter cloacae

<400> 6606

Ser Pro Arg Lys Val Phe Met Ser Lys Lys Thr Gln His Phe Ser Leu
 1 5 10 15
 Lys Val Leu Thr Ile Asn Ile His Lys Gly Phe Thr Ala Phe Asn Arg
 20 25 30
 Arg Phe Ile Leu Pro Glu Leu Arg Asp Ala Val Arg Thr Val Ser Ala
 35 40 45
 Asp Ile Val Cys Leu Gln Glu Val Met Gly Ala His Glu Val His Pro

50		55		60	
Met	His	Phe	Glu	Asn	Trp
65				70	
Asp	Thr	Met	Trp	Ser	Asp
				85	
Glu	Gly	Ala	Ser	Arg	
			100		

<210> 6607

<211> 448

<212> PRT

<213> Enterobacter cloacae

<400> 6607

Pro	His	Leu	Arg	Lys	Lys	Cys	Pro	Arg	Gln	Gln	Pro	Asp	Gly	Ala	Gly
1				5					10					15	
Phe	Thr	Gln	Leu	Ala	Thr	Ser	Leu	Arg	Pro	Cys	Pro	Thr	Gln	Arg	Gly
			20					25					30		
Asp	Pro	Leu	Met	Lys	Cys	Thr	Trp	Gln	Glu	Gly	Asn	Arg	Ile	Thr	Leu
		35					40					45			
Leu	Glu	Asn	Gly	Asp	Asn	Tyr	Tyr	Pro	Ala	Val	Phe	Glu	Ala	Ile	Ser
	50					55					60				
His	Ala	Gln	Gln	Lys	Val	Phe	Leu	Glu	Thr	Phe	Ile	Trp	Phe	Glu	Asp
65					70					75					80
Asp	Val	Gly	Arg	Gln	Leu	His	Ser	Ala	Leu	Leu	His	Ala	Ala	Arg	Arg
				85					90					95	
Gly	Ile	Lys	Ile	Glu	Val	Leu	Leu	Asp	Gly	Tyr	Gly	Ser	Pro	Asp	Leu
			100					105					110		
Ser	Asp	Glu	Phe	Val	Asn	Glu	Leu	Thr	Ala	Ala	Gly	Val	Val	Phe	Arg
		115					120					125			
Tyr	Tyr	Asp	Pro	Gly	Pro	Arg	Leu	Phe	Gly	Met	Arg	Thr	Asn	Leu	Phe
		130				135					140				
Arg	Arg	Met	His	Arg	Lys	Ile	Val	Val	Val	Asp	Glu	Thr	Val	Ala	Phe
145					150					155					160
Val	Gly	Gly	Ile	Asn	Tyr	Ser	Ala	Glu	His	Met	Ser	Asp	Tyr	Gly	Pro
				165					170					175	
Glu	Ala	Lys	Gln	Asp	Tyr	Ala	Ile	Arg	Ile	Glu	Gly	Pro	Val	Val	Gln
			180					185					190		
Asp	Ile	Gln	Leu	Phe	Val	Leu	Glu	Asn	Leu	Pro	Gly	Lys	Glu	Ala	Ala
		195					200					205			
Arg	Arg	Trp	Trp	Arg	Arg	Arg	His	Arg	Pro	Glu	Glu	Asn	Arg	Lys	Pro
		210				215						220			
Gly	Glu	Ala	Gln	Ala	Leu	Phe	Val	Trp	Arg	Asp	Asn	Glu	Glu	His	Arg
225					230					235					240
Asp	Asp	Ile	Glu	Arg	His	Tyr	Leu	Lys	Met	Leu	Ala	Asn	Ala	Lys	Arg
				245					250					255	
Glu	Val	Ile	Ile	Ala	Asn	Ala	Tyr	Phe	Phe	Pro	Gly	Tyr	Arg	Ile	Leu
			260					265					270		
His	Ala	Met	Arg	Asn	Ala	Ala	Arg	Arg	Gly	Val	Ser	Val	Lys	Leu	Ile
		275					280					285			
Val	Gln	Gly	Glu	Pro	Asp	Met	Pro	Ile	Val	Lys	Val	Gly	Ala	Arg	Leu
		290				295					300				
Leu	Tyr	Arg	Tyr	Leu	Val	Lys	Ser	Gly	Val	Gln	Ile	Tyr	Glu	Tyr	Arg
305					310					315					320
Arg	Arg	Pro	Leu	His	Gly	Lys	Val	Ala	Val	Met	Asp	Asp	His	Trp	Ala
				325					330					335	
Thr	Val	Gly	Ser	Asn	Leu	Asp	Pro	Leu	Ser	Leu	Ser	Leu	Ser	Leu	Asn
			340				345						350		
Glu	Ala	Asn	Leu	Ile	Ile	His	Asp	Arg	Gln	Phe	Asn	His	Thr	Leu	Arg
		355					360					365			
Asp	Asn	Leu	Gln	Gly	Leu	Ile	Asn	Lys	Asp	Cys	Val	Arg	Val	Asp	Glu

370		375		380
Ser Met Val Pro Lys Arg	Ser Trp Trp Asn Val	Gly Ile Gly Val Val		
385	390	395	400	
Val Phe His Phe Leu Arg	His Phe Pro Ala Met	Val Gly Trp Leu Pro		
	405	410	415	
Ala His Thr Pro Lys Leu	Ala Leu Val Asp Pro	Pro Val Gln Pro Glu		
	420	425	430	
Met Glu Thr Gln Asp Arg	Val Glu Ala Glu Asp	Gly Gly Lys Thr		
	435	440	445	

<210> 6608

<211> 239

<212> PRT

<213> Enterobacter cloacae

<400> 6608

Thr Phe Ile Arg Ala Ser	Gln His Leu Thr Ala	Ala Ser Phe Tyr Arg
1	5	10
Ser Cys Ala Thr Arg Tyr	Ala Pro Ser Ala Pro	Ile Leu Ser Ala Ser
	20	25
Arg Arg Ser Trp Ala Arg	Met Lys Cys Thr Arg	Cys Ile Ser Lys Thr
	35	40
Gly Pro Thr Arg Pro Thr	Thr Ser Phe Trp Arg	Ile Pro Cys Gly Ala
	50	55
Ile Thr Pro Thr Gly Ala	Met Arg Ser Thr Arg	Arg Gly His His Gly
65	70	75
Asn Ala Val Leu Ser Arg	Phe Pro Ile Glu His	Tyr Glu Asn Arg Asp
	85	90
Val Ser Val Gly Glu Ser	Glu Lys Arg Gly Leu	Leu Tyr Cys Arg Ile
	100	105
Thr Pro Pro Glu Leu Asp	Phe Pro Ile His Val	Gly Cys Val His Leu
	115	120
Gly Leu Arg Glu Ala His	Arg Gln Ala Gln Leu	Gln Met Leu Ala Asp
	130	135
Trp Thr Asn Ala Leu Pro	Glu Gly Glu Pro Val	Val Val Ala Gly Asp
	145	150
Phe Asn Asp Trp Arg Gln	Arg Ala Asn His Pro	Leu Lys Val Asn Ala
	165	170
Gly Leu Glu Glu Ile Phe	Thr Arg Ala Arg Gly	Arg Pro Ala Arg Thr
	180	185
Phe Pro Val Arg Phe Pro	Leu Leu Arg Leu Asp	Arg Ile Tyr Val Lys
	195	200
Asn Ala His Ala Ser Ser	Pro Thr Ala Leu Ala	Leu Leu Asn Trp Arg
	210	215
His Leu Ser Asp His Ala	Pro Leu Ser Ala Glu	Ile His Leu
	225	230
		235

<210> 6609

<211> 239

<212> PRT

<213> Enterobacter cloacae

<400> 6609

Lys Ser Pro Val Thr Glu	Thr Ser Ile Met Asn	Ser Lys Arg Tyr Glu
1	5	10
Arg Ile Cys Glu Met Leu	Ala Arg Arg Gln Pro	Asp Leu Thr Val Cys
	20	25
Met Glu Gln Val His Lys	Pro His Asn Val Ser	Ala Ile Val Arg Thr
	35	40
Ala Asp Ala Val Gly Val	His Glu Val His Ala	Val Trp Pro Gly Ala
	50	55
		60

Arg Met Arg Thr Met Ala Ser Thr Ala Ala Gly Ser Asn Ser Trp Val
 65 70 75 80
 Ser Val Lys Thr His Gln Thr Ile Gly Glu Ala Val Ser His Leu Lys
 85 90 95
 Gly Arg Gly Met Gln Val Leu Ala Thr Asn Leu Ser Ala Lys Ala Val
 100 105 110
 Asp Phe Arg Glu Ile Asp Tyr Thr Arg Pro Thr Cys Ile Leu Met Gly
 115 120 125
 Gln Glu Lys Thr Gly Ile Thr Gln Glu Ala Leu Asp Leu Ala Asp Arg
 130 135 140
 Asp Ile Ile Ile Pro Met Ile Gly Met Val Gln Ser Leu Asn Val Ser
 145 150 155 160
 Val Ala Ser Ala Leu Ile Leu Tyr Glu Ala Gln Arg Gln Arg Gln Asn
 165 170 175
 Ala Gly Met Tyr Glu Arg Ser Asn Ser Met Leu Pro Glu Glu Glu Gln
 180 185 190
 Gln Arg Leu Leu Phe Glu Gly Gly Tyr Pro Val Leu Ala Arg Val Ala
 195 200 205
 Lys Gln Lys Lys Leu Pro Tyr Pro His Val Asn Ala Gln Gly Glu Ile
 210 215 220
 Glu Ala Asp Ala Glu Trp Trp Ser Thr Met Gln Tyr Ala Gly
 225 230 235

<210> 6610

<211> 695

<212> PRT

<213> Enterobacter cloacae

<400> 6610

Ile Met Lys Gly Arg Leu Leu Asp Ala Ile Pro Leu Asn Ser Leu Thr
 1 5 10 15
 Gly Val Gly Ala Ala Gln Ser Ser Lys Leu Ala Lys Ile Gly Leu His
 20 25 30
 Thr Val Gln Asp Leu Leu Leu His Leu Pro Leu Arg Tyr Glu Asp Arg
 35 40 45
 Thr Gln Leu Tyr Lys Ile Gly Asp Leu Leu Pro Ala Ile Tyr Ala Thr
 50 55 60
 Val Glu Gly Glu Val Leu Asn Cys Asn Ile Thr Phe Gly Gly Arg Arg
 65 70 75 80
 Met Met Thr Cys Gln Ile Ser Asp Gly Thr Gly Ile Leu Thr Leu Arg
 85 90 95
 Phe Phe Asn Phe Asn Ala Ala Met Lys Asn Ser Leu Ala Thr Gly Arg
 100 105 110
 Arg Val Leu Ala Tyr Gly Glu Ala Lys Arg Gly Lys Tyr Gly Ala Glu
 115 120 125
 Met Ile His Pro Glu Tyr Arg Val Gln Gly Asp Leu Ser Ser Pro Glu
 130 135 140
 Leu Gln Glu Thr Leu Thr Pro Val Tyr Pro Thr Thr Glu Gly Ile Lys
 145 150 155 160
 Gln Ala Thr Leu Arg Lys Leu Thr Asp Gln Ala Leu Glu Leu Leu Asp
 165 170 175
 Thr Cys Ala Ile Asn Glu Leu Leu Pro Pro Glu Leu Ala Gln Gly Met
 180 185 190
 Met Ser Leu Pro Glu Ala Leu Arg Thr Leu His Arg Pro Pro Pro Thr
 195 200 205
 Leu Gln Leu Val Asp Leu Glu Ser Gly Lys His Pro Ala Gln Arg Arg
 210 215 220
 Leu Ile Leu Glu Glu Leu Ala His Asn Leu Ser Met Leu Ala Leu
 225 230 235 240
 Arg Ala Gly Ala Gln Arg Phe His Ala Gln Pro Leu Ser Gln Arg Asp
 245 250 255

Glu Leu Lys Asp Lys Leu Leu Ala Ser Leu Pro Phe Lys Pro Thr Gly
 260 265 270
 Ala Gln Ala Arg Val Thr Ala Glu Ile Glu Arg Asp Met Ala Leu Asp
 275 280 285
 Val Pro Met Met Arg Leu Val Gln Gly Asp Val Gly Ser Gly Lys Thr
 290 295 300
 Leu Val Ala Ala Leu Ala Ala Leu Arg Ala Ile Ala His Gly Lys Gln
 305 310 315 320
 Val Ala Leu Met Ala Pro Thr Glu Leu Leu Ala Glu Gln His Ala Asn
 325 330 335
 Asn Phe Arg Asn Trp Phe Ala Pro Leu Gly Ile Glu Val Gly Trp Leu
 340 345 350
 Ala Gly Lys Gln Lys Gly Lys Ala Arg Leu Ala Gln Gln Glu Ala Ile
 355 360 365
 Ala Ser Gly Gln Val Gln Met Ile Val Gly Thr His Ala Ile Phe Gln
 370 375 380
 Glu Gln Val Gln Phe Asn Gly Leu Ala Leu Val Ile Ile Asp Glu Gln
 385 390 395 400
 His Arg Phe Gly Val His Gln Arg Leu Ala Leu Trp Glu Lys Gly Leu
 405 410 415
 Gln Gln Gly Phe His Pro His Gln Leu Ile Met Thr Ala Thr Pro Ile
 420 425 430
 Pro Arg Thr Leu Ala Met Thr Ala Tyr Ala Asp Leu Asp Thr Ser Thr
 435 440 445
 Ile Asp Glu Leu Pro Pro Gly Arg Thr Pro Val Thr Thr Val Ala Ile
 450 455 460
 Pro Asp Thr Arg Arg Ser Asp Ile Ile Asp Arg Val Arg Asn Ala Cys
 465 470 475 480
 Thr His Glu Gly Arg Gln Ala Tyr Trp Val Cys Thr Leu Ile Glu Glu
 485 490 495
 Ser Glu Leu Leu Glu Ala Gln Ala Ala Glu Ala Thr Trp Glu Glu Leu
 500 505 510
 Lys Leu Ala Leu Pro Glu Leu Asn Val Gly Leu Val His Gly Arg Met
 515 520 525
 Lys Pro Ala Glu Lys Gln Ala Val Met Gln Ser Phe Lys Gln Gly Glu
 530 535 540
 Leu His Leu Leu Val Ala Thr Thr Val Ile Glu Val Gly Val Asp Val
 545 550 555 560
 Pro Asn Ser Ser Leu Met Ile Ile Glu Asn Pro Glu Arg Leu Gly Leu
 565 570 575
 Ala Gln Leu His Gln Leu Arg Gly Arg Val Gly Arg Gly Ala Ile Ala
 580 585 590
 Ser His Cys Val Leu Leu Tyr Lys Ala Pro Leu Ser Lys Thr Ala Gln
 595 600 605
 Met Arg Leu Gln Val Leu Arg Asp Ser Asn Asp Gly Phe Val Ile Ala
 610 615 620
 Gln Lys Asp Leu Glu Ile Arg Gly Pro Gly Glu Leu Leu Gly Thr Arg
 625 630 635 640
 Gln Thr Gly Asn Ala Glu Phe Lys Val Ala Asp Leu Leu Arg Asp Gln
 645 650 655
 Ala Met Ile Pro Glu Val Gln Arg Leu Ala Arg His Ile His Glu Arg
 660 665 670
 Tyr Pro Glu Gln Ala Ala Ala Leu Ile Glu Arg Trp Met Pro Glu Thr
 675 680 685
 Glu Arg Tyr Ser Asn Ala
 690 695

<210> 6611

<211> 475

<212> PRT

<213> Enterobacter cloacae

<400> 6611

Asn	Ala	Arg	Phe	Ser	Thr	Val	Gly	Leu	Pro	Pro	Met	Ser	Val	Asn	Thr
1				5					10					15	
Leu	Glu	Ser	Ala	Asp	Ala	Gln	Pro	Ile	Ala	Gln	Lys	Gln	Asn	Ser	Glu
			20					25					30		
Leu	Ile	Tyr	Arg	Leu	Glu	Asp	Arg	Pro	Pro	Leu	Pro	Gln	Thr	Leu	Phe
		35					40					45			
Ala	Ala	Cys	Gln	His	Leu	Leu	Ala	Met	Phe	Val	Ala	Val	Ile	Thr	Pro
		50				55					60				
Ala	Leu	Leu	Ile	Cys	Gln	Ala	Leu	Gly	Leu	Pro	Ala	Gln	Asp	Thr	Gln
65					70					75					80
His	Ile	Ile	Ser	Met	Ser	Leu	Phe	Ala	Ser	Gly	Val	Ala	Ser	Ile	Ile
				85					90					95	
Gln	Ile	Lys	Ala	Trp	Gly	Pro	Val	Gly	Ser	Gly	Leu	Leu	Ser	Ile	Gln
			100					105					110		
Gly	Thr	Ser	Phe	Asn	Phe	Val	Ala	Pro	Leu	Ile	Met	Gly	Gly	Thr	Ala
		115					120					125			
Leu	Lys	Thr	Gly	Gly	Ala	Asp	Val	Pro	Thr	Met	Met	Ala	Ala	Leu	Phe
	130					135					140				
Gly	Thr	Leu	Met	Leu	Ala	Ser	Cys	Thr	Glu	Met	Ile	Ile	Ser	Arg	Val
145					150					155					160
Leu	His	Leu	Ala	Arg	Arg	Val	Ile	Thr	Pro	Leu	Val	Ser	Gly	Val	Val
				165					170					175	
Val	Met	Ile	Ile	Gly	Leu	Ser	Leu	Ile	Gln	Val	Gly	Leu	Thr	Ser	Ile
			180					185					190		
Gly	Gly	Gly	Tyr	Ala	Ala	Met	Ser	Asp	His	Thr	Phe	Gly	Ala	Pro	Lys
		195					200					205			
Asn	Leu	Leu	Leu	Ala	Gly	Val	Val	Leu	Ala	Ile	Ile	Ile	Leu	Leu	Asn
	210					215					220				
Arg	Gln	Arg	Asn	Pro	Tyr	Leu	Arg	Val	Ala	Ser	Leu	Val	Ile	Ala	Met
225					230					235					240
Ala	Ala	Gly	Tyr	Leu	Leu	Ala	Trp	Ala	Leu	Gly	Met	Leu	Pro	Glu	Asn
				245					250					255	
Thr	Thr	Pro	Thr	Asn	Ser	Ala	Leu	Ile	Thr	Val	Pro	Thr	Pro	Leu	Tyr
			260					265					270		
Tyr	Gly	Leu	Gly	Ile	Asp	Trp	Ser	Leu	Leu	Leu	Pro	Leu	Met	Leu	Val
		275					280					285			
Phe	Met	Ile	Thr	Ser	Leu	Glu	Thr	Ile	Gly	Asp	Ile	Thr	Ala	Thr	Ser
	290					295					300				
Asp	Val	Ser	Glu	Gln	Pro	Val	Ser	Gly	Pro	Leu	Tyr	Met	Lys	Arg	Leu
305					310					315					320
Lys	Gly	Gly	Val	Leu	Ala	Asn	Gly	Leu	Asn	Ser	Phe	Val	Ser	Ala	Val
				325					330					335	
Phe	Asn	Thr	Phe	Pro	Asn	Ser	Cys	Phe	Gly	Gln	Asn	Asn	Gly	Val	Ile
			340					345					350		
Gln	Leu	Thr	Gly	Val	Ala	Ser	Arg	Tyr	Val	Gly	Phe	Val	Val	Ala	Leu
		355					360					365			
Met	Leu	Val	Val	Leu	Gly	Leu	Phe	Pro	Ala	Val	Ser	Gly	Phe	Val	Gln
	370					375					380				
His	Ile	Pro	Glu	Pro	Val	Leu	Gly	Gly	Ala	Thr	Leu	Val	Met	Phe	Gly
385					390					395					400
Thr	Ile	Ala	Ala	Ser	Gly	Val	Arg	Ile	Val	Ser	Arg	Glu	Pro	Leu	Asn
				405					410					415	
Arg	Arg	Ala	Ile	Met	Ile	Ile	Ala	Leu	Ser	Leu	Ala	Val	Gly	Leu	Gly
			420					425					430		
Val	Ser	Gln	Gln	Pro	Met	Ile	Leu	Gln	Phe	Ala	Pro	Asp	Trp	Val	Lys
		435					440					445			
Asn	Leu	Leu	Ser	Ser	Gly	Ile	Ala	Ala	Gly	Gly	Ile	Thr	Ala	Ile	Val
	450					455					460				
Leu	Asn	Leu	Ile	Phe	Pro	Pro	Glu	Lys	Asn						

465

470

475

<210> 6612

<211> 110

<212> PRT

<213> Enterobacter cloacae

<400> 6612

Thr	His	Phe	Gln	Tyr	His	Ala	Gln	Ser	Phe	Leu	His	Leu	Trp	Ser	Ile
1				5					10					15	
Leu	Ser	Met	Ala	Arg	Val	Thr	Val	Gln	Asp	Ala	Val	Lys	Lys	Ile	Gly
		20						25					30		
Asn	Arg	Phe	Asp	Leu	Val	Leu	Val	Ala	Ala	Arg	Arg	Ala	Arg	Gln	Met
		35					40					45			
Gln	Val	Gly	Gly	Lys	Asp	Pro	Leu	Val	Pro	Glu	Glu	Asn	Asp	Lys	Thr
		50				55					60				
Thr	Val	Ile	Ala	Leu	Arg	Glu	Ile	Glu	Glu	Gly	Leu	Ile	Asn	Asn	Gln
65					70					75					80
Ile	Leu	Asp	Val	Arg	Glu	Arg	Gln	Glu	Gln	Gln	Glu	Gln	Glu	Ala	Ala
				85				90						95	
Glu	Leu	Gln	Ala	Val	Thr	Ala	Ile	Ala	Glu	Gly	Arg	Arg			
			100					105					110		

<210> 6613

<211> 576

<212> PRT

<213> Enterobacter cloacae

<400> 6613

His	Pro	Tyr	Val	Arg	Phe	Ala	Gly	Arg	Lys	Thr	Met	Lys	Phe	Ile	Gly
1				5					10					15	
Lys	Leu	Leu	Ile	Tyr	Leu	Leu	Val	Ala	Leu	Leu	Ile	Val	Val	Leu	Ala
			20					25					30		
Phe	Tyr	Phe	Leu	Leu	Gln	Thr	Arg	Trp	Gly	Ala	Ser	Gln	Val	Ser	Ser
		35					40					45			
Trp	Ile	Thr	Val	Asn	Thr	Asp	Tyr	Glu	Leu	Asn	Phe	Asp	Leu	Met	Asp
		50				55				60					
His	Arg	Phe	Ser	Ser	Pro	Ser	His	Ile	Leu	Leu	Glu	Asn	Val	Thr	Phe
65					70					75					80
Gly	Arg	Asp	Gly	Lys	Pro	Ala	Thr	Leu	Val	Ala	Lys	Lys	Val	Asp	Ile
				85				90						95	
Gly	Leu	Ser	Ser	Arg	Gln	Ile	Thr	Asp	Pro	Leu	His	Met	Asp	Ala	Ile
			100					105					110		
Thr	Leu	Phe	Asp	Gly	Thr	Leu	Asn	Leu	Ser	Pro	Gln	Thr	Ala	Pro	Leu
		115					120					125			
Pro	Phe	Gln	Ala	Asp	Arg	Leu	Gln	Leu	Asn	Asn	Met	Ala	Phe	Asn	Ser
		130				135					140				
Pro	Asn	Thr	Glu	Trp	Asp	Leu	Ser	Ala	Gln	Lys	Val	Thr	Gly	Gly	Val
145					150					155					160
Ser	Pro	Trp	Gln	Pro	Glu	Ala	Gly	Asn	Val	Leu	Gly	Lys	Asn	Ala	Gln
				165				170						175	
Ile	Gln	Met	Ser	Ala	Gly	Ser	Leu	Thr	Leu	Asn	Gly	Ile	Pro	Ala	Asn
			180					185					190		
Asn	Val	Leu	Ile	Gln	Gly	Gln	Leu	Asn	Gly	Lys	Glu	Val	Ala	Leu	Asn
		195					200					205			
Thr	Ile	Gly	Ala	Asp	Met	Ala	Arg	Gly	Ser	Leu	Thr	Gly	Ser	Ala	Leu
		210				215					220				
Arg	Asn	Ala	Asp	Gly	Gly	Trp	Val	Ile	Asn	Thr	Leu	Arg	Leu	Asn	Glu
225				230						235					240
Ile	Arg	Leu	Gln	Ser	Asp	Lys	Ser	Leu	Leu	Asp	Phe	Phe	Ala	Pro	Leu
				245					250					255	

Ser Thr Leu Pro Ser Leu Gln Ile Gly Arg Leu Glu Val Thr Asp Ala
 260 265 270
 Arg Leu Gln Gly Pro Asp Trp Ala Val Thr Asp Leu Asp Leu Ser Leu
 275 280 285
 Arg Asn Leu Thr Leu Ser Lys Gly Asp Trp Gln Ser Gln Glu Gly Arg
 290 295 300
 Leu Ser Met Asn Ala Ser Glu Phe Ile Tyr Gly Ser Leu His Leu Phe
 305 310 315 320
 Asp Pro Ile Leu Asn Ala Glu Phe Ser Pro Gln Gly Ile Ala Leu Arg
 325 330 335
 Gln Phe Thr Ser Arg Trp Glu Gly Gly Met Val Arg Thr Ser Gly Asn
 340 345 350
 Trp Leu Arg Glu Gly Gln Ala Leu Val Leu Asp Asp Val Ala Ile Ala
 355 360 365
 Gly Leu Glu Tyr Thr Leu Pro Glu Asn Trp Lys Thr Leu Trp Met Asp
 370 375 380
 Pro Leu Pro Ala Trp Leu Asn Ser Val Thr Leu Lys Lys Phe Gly Leu
 385 390 395 400
 Ser Arg Asn Leu Val Ile Asp Ile Asp Pro Ala Phe Pro Trp Gln Ile
 405 410 415
 Thr Ser Leu Asp Gly Tyr Gly Ala Asn Leu Arg Leu Ala Gln Asp His
 420 425 430
 Lys Trp Gly Val Trp Gly Gly Asn Ala Thr Leu Asn Gly Ala Ala Ala
 435 440 445
 Thr Phe Asn Arg Val Asp Val Arg Arg Pro Ser Leu Ala Leu Asn Ala
 450 455 460
 Asn Ala Ala Thr Val Asn Ile Thr Asp Leu Ser Ala Phe Thr Glu Lys
 465 470 475 480
 Gly Ile Leu Glu Ala Thr Ala Thr Val Ser Gln Leu Pro Gln Arg Gln
 485 490 495
 Thr Thr Val Ser Leu Asn Gly Arg Gly Val Pro Leu Asn Val Leu Gln
 500 505 510
 Gln Trp Gly Trp Pro Ala Leu Pro Ile Ala Gly Asp Gly Asn Ile Gln
 515 520 525
 Leu Thr Ala Ser Gly Ser Val Gln Ala Asn Ala Pro Leu Lys Pro Thr
 530 535 540
 Val Asn Gly Lys Leu Ser Ala Val Asn Met Asp Lys Gln Gln Val Gln
 545 550 555 560
 Gln Thr Met Thr Gly Gly Val Val Ser Thr Val Ala Pro Ala Gln
 565 570 575

<210> 6614

<211> 710

<212> PRT

<213> Enterobacter cloacae

<400> 6614

Thr Cys Gly Ser Pro Leu Tyr Leu Phe Glu Ser Leu Asn Gln Leu Ile
 1 5 10 15
 Gln Thr Tyr Leu Pro Glu Asp Gln Ile Lys Arg Leu Gln Gln Ala Tyr
 20 25 30
 Leu Val Ala Arg Asp Ala His Glu Gly Gln Thr Arg Ser Ser Gly Glu
 35 40 45
 Pro Tyr Ile Thr His Pro Val Ala Val Ala Cys Ile Leu Ala Glu Met
 50 55 60
 Lys Leu Asp Tyr Glu Thr Leu Met Ala Ala Leu Leu His Asp Val Ile
 65 70 75 80
 Glu Asp Thr Pro Ala Thr Tyr Gln Asp Met Glu Gln Leu Phe Gly Lys
 85 90 95
 Ser Val Ala Glu Leu Val Glu Gly Val Ser Lys Leu Asp Lys Leu Lys
 100 105 110

Phe	Arg	Asp	Lys	Lys	Glu	Ala	Gln	Ala	Glu	Asn	Phe	Arg	Lys	Met	Ile
		115					120					125			
Met	Ala	Met	Val	Gln	Asp	Ile	Arg	Val	Ile	Leu	Ile	Lys	Leu	Ala	Asp
		130					135					140			
Arg	Thr	His	Asn	Met	Arg	Thr	Leu	Gly	Ser	Leu	Arg	Pro	Asp	Lys	Arg
145					150					155					160
Arg	Arg	Ile	Ala	Arg	Glu	Thr	Leu	Glu	Ile	Tyr	Ser	Pro	Leu	Ala	His
					165					170					175
Arg	Leu	Gly	Ile	His	His	Ile	Lys	Thr	Glu	Leu	Glu	Glu	Leu	Gly	Phe
			180					185							190
Glu	Ala	Leu	Tyr	Pro	Asn	Arg	Tyr	Arg	Val	Ile	Lys	Glu	Val	Val	Lys
		195					200					205			
Ala	Ala	Arg	Gly	Asn	Arg	Lys	Glu	Met	Ile	Gln	Lys	Ile	Leu	Ser	Glu
		210					215					220			
Ile	Glu	Gly	Arg	Leu	Gln	Glu	Ala	Gly	Ile	Pro	Cys	Arg	Val	Ser	Gly
225					230					235					240
Arg	Glu	Lys	His	Leu	Tyr	Ser	Ile	Tyr	Cys	Lys	Met	Val	Leu	Lys	Glu
					245				250						255
Gln	Arg	Phe	His	Ser	Ile	Met	Asp	Ile	Tyr	Ala	Phe	Arg	Val	Ile	Val
			260					265							270
His	Asp	Ser	Asp	Thr	Cys	Tyr	Arg	Val	Leu	Gly	Gln	Met	His	Ser	Leu
		275					280								285
Tyr	Lys	Pro	Arg	Pro	Gly	Arg	Val	Lys	Asp	Tyr	Ile	Ala	Ile	Pro	Lys
		290					295				300				
Ala	Asn	Gly	Tyr	Gln	Ser	Leu	His	Thr	Ser	Met	Ile	Gly	Pro	His	Gly
305					310					315					320
Val	Pro	Val	Glu	Val	Gln	Ile	Arg	Thr	Glu	Asp	Met	Asp	Gln	Met	Ala
					325				330						335
Glu	Met	Gly	Val	Ala	Ala	His	Trp	Ala	Tyr	Lys	Glu	His	Gly	Gly	Glu
			340					345							350
Ser	Ser	Thr	Thr	Ala	Gln	Ile	Arg	Ala	Gln	Arg	Trp	Met	Gln	Ser	Leu
		355					360								365
Leu	Glu	Leu	Gln	Gln	Ser	Ala	Gly	Ser	Ser	Phe	Glu	Phe	Ile	Glu	Ser
		370					375				380				
Val	Lys	Ser	Asp	Leu	Phe	Pro	Asp	Glu	Ile	Tyr	Val	Phe	Thr	Pro	Glu
385					390					395					400
Gly	Arg	Ile	Val	Glu	Leu	Pro	Ala	Gly	Ala	Thr	Pro	Val	Asp	Phe	Ala
					405				410						415
Tyr	Ala	Val	His	Thr	Asp	Ile	Gly	His	Ala	Cys	Val	Gly	Ala	Arg	Val
			420					425							430
Asp	Arg	Gln	Pro	Tyr	Pro	Leu	Ser	Gln	Pro	Leu	Phe	Ser	Gly	Gln	Thr
		435					440								445
Val	Glu	Ile	Ile	Thr	Ala	Pro	Gly	Ala	Arg	Pro	Asn	Ala	Ala	Trp	Leu
		450					455				460				
Asn	Phe	Val	Val	Ser	Ser	Lys	Ala	Arg	Ala	Lys	Ile	Arg	Gln	Leu	Leu
465					470					475					480
Lys	Asn	Leu	Lys	Arg	Asp	Asp	Ser	Val	Ser	Leu	Gly	Arg	Arg	Leu	Leu
				485					490						495
Asn	His	Ala	Leu	Gly	Gly	Ser	Arg	Lys	Leu	Ala	Glu	Ile	Pro	Pro	Glu
			500					505							510
Asn	Ile	Gln	His	Glu	Leu	Glu	Arg	Met	Lys	Leu	Ala	Ser	Leu	Asp	Asp
		515					520								525
Leu	Leu	Ala	Glu	Ile	Gly	Leu	Gly	Asn	Ala	Met	Ser	Val	Val	Val	Ala
		530					535				540				
Lys	Asn	Leu	Gln	Gln	Gly	Glu	Thr	Thr	Ala	Val	Pro	Ala	Thr	Thr	Gln
545					550					555					560
Asn	His	Gly	His	Leu	Pro	Ile	Lys	Gly	Ala	Asp	Gly	Val	Leu	Ile	Thr
				565					570						575
Phe	Ala	Lys	Cys	Cys	Arg	Pro	Ile	Pro	Gly	Asp	Pro	Ile	Ile	Ala	His
			580					585							590
Val	Ser	Pro	Gly	Lys	Gly	Leu	Val	Ile	His	His	Glu	Ser	Cys	Arg	Asn

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<210> 6615
<211> 405
<212> PRT
<213> Enterobacter cloacae
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<400>	6615														
Gln 1	Glu	Pro	Phe	Met 5	Ile	His	Leu	Asp	Thr 10	Leu	Ser	Thr	Leu	Val 15	Ala
Ala	Thr	Leu	Val 20	Leu	Leu	Leu	Gly	Arg 25	Lys	Leu	Val	His	Ser 30	Val	Ser
Phe	Leu	Lys 35	Lys	Tyr	Thr	Ile	Pro 40	Glu	Pro	Val	Ala	Gly 45	Gly	Leu	Leu
Val	Ala 50	Leu	Ala	Leu	Leu	Ile 55	Leu	Lys	Lys	Ser	Met 60	Gly	Trp	Glu	Ile
Asp 65	Phe	Asp	Met	Ser	Leu	Lys	Asp	Pro	Leu	Met 75	Leu	Ala	Phe	Phe	Ala 80
Thr	Ile	Gly	Leu	Asn 85	Ala	Asn	Leu	Ala	Ser 90	Leu	Arg	Ser	Gly	Gly 95	Lys
Val	Leu	Gly	Val 100	Phe	Leu	Ile	Val	Val 105	Val	Gly	Leu	Leu	Leu	Met 110	Gln
Asn	Ala	Ile 115	Gly	Ile	Gly	Met	Ala 120	Ser	Leu	Leu	Gly	Leu 125	Asp	Pro	Leu
Met	Gly 130	Leu	Leu	Ala	Gly	Ser	Ile 135	Thr	Leu	Ser	Gly 140	Gly	His	Gly	Thr
Gly 145	Ala	Ala	Trp	Ser	Lys 150	Leu	Phe	Ile	Glu	Arg 155	Tyr	Gly	Phe	Glu	Asn 160
Ala	Thr	Glu	Val	Ala 165	Met	Ala	Cys	Ala	Thr 170	Phe	Gly	Leu	Val	Leu	Gly 175
Gly	Leu	Ile	Gly 180	Gly	Pro	Val	Ala	Arg 185	Tyr	Leu	Val	Lys	His 190	Ser	Thr
Thr	Pro	Glu 195	Gly	Arg	Pro	Asp	Asp 200	Glu	Met	Val	Pro	Thr 205	Ala	Phe	Glu
Lys	Pro 210	Asp	Val	Gly	Arg	Ser	Ile 215	Thr	Ser	Leu	Val	Met 220	Ile	Glu	Thr
Ile 225	Ala	Met	Ile	Ala	Ile 230	Cys	Leu	Thr	Val	Gly 235	Lys	Ile	Val	Ala	Gln 240
Trp	Leu	Ala	Gly	Thr 245	Ala	Phe	Glu	Leu	Pro 250	Thr	Phe	Val	Cys	Val	Leu
Phe	Ile	Gly	Val 260	Ile	Leu	Ser	Asn 265	Gly	Leu	Ala	Gln	Met	Gly 270	Phe	Tyr
Arg	Val	Phe 275	Glu	Arg	Ala	Val	Ser 280	Val	Leu	Gly	Asn	Val 285	Ser	Leu	Ser
Leu	Phe 290	Leu	Ala	Met	Ala	Leu	Met 295	Ser	Leu	Lys	Leu	Trp 300	Glu	Leu	Ala
Ser	Leu	Ala	Leu	Pro	Met	Val	Ala	Ile	Leu	Ala	Val	Gln	Ala	Val	Phe

305 310 315 320
 Met Ala Leu Tyr Ala Ile Phe Val Thr Trp Arg Met Met Gly Lys Asn
 325 330 335
 Tyr Asp Ala Ala Val Leu Ala Ala Gly His Cys Gly Phe Gly Leu Gly
 340 345 350
 Ala Thr Pro Thr Ala Ile Ala Asn Met Gln Ala Ile Thr Glu Arg Phe
 355 360 365
 Gly Pro Ser His Met Ala Phe Leu Val Val Pro Met Val Gly Ala Phe
 370 375 380
 Phe Ile Asp Ile Val Asn Ala Leu Val Ile Lys Leu Tyr Leu Met Leu
 385 390 395 400
 Pro Met Phe Gly
 405

<210> 6616
 <211> 195
 <212> PRT
 <213> Enterobacter cloacae

<400> 6616
 Ala His Asp Lys Val Gln Pro Gly Gly Val Arg Thr Cys Pro Arg Arg
 1 5 10 15
 Gly Asn Asp Leu His Arg Leu Ser Ala Glu Lys Arg Leu Arg Gln Arg
 20 25 30
 Ile Arg Leu Pro Val Asp Ala Gly Thr Tyr Ala Gly Val Ala Asp Ile
 35 40 45
 Gly Met His Gly Val Ser Glu Val Asp Arg Cys Arg Ala Arg Arg Gln
 50 55 60
 Phe Asp Asn Ala Pro Phe Arg Arg Glu Asn Val Asn Leu Ile Arg Glu
 65 70 75 80
 Glu Ile Gly Phe Asn Ala Leu Asp Lys Phe Lys Arg Ala Thr Cys Ala
 85 90 95
 Leu Leu Gln Leu Gln Gln Ala Leu His Pro Ala Leu Gly Ala Asp Leu
 100 105 110
 Arg Gly Gly Ala Ala Phe Ala Ala Val Leu Phe Val Ser Pro Val Arg
 115 120 125
 Arg Asp Thr His Leu Arg His Leu Ile His Ile Phe Gly Thr Asn Leu
 130 135 140
 His Leu Asn Arg Asp Thr Val Arg Ala Asn His Gly Gly Val Gln Arg
 145 150 155 160
 Leu Ile Ser Val Arg Phe Trp Asn Gly Asp Val Ile Phe Asp Ala Pro
 165 170 175
 Arg Thr Arg Leu Val Gln Ala Val His Leu Pro Gln His Ala Ile Thr
 180 185 190
 Gly Val
 195

<210> 6617
 <211> 85
 <212> PRT
 <213> Enterobacter cloacae

<400> 6617
 Val Met Ala Asn Ile Glu Ile Tyr Thr Lys Ala Thr Cys Pro Phe Cys
 1 5 10 15
 His Arg Ala Lys Ala Leu Leu Ser Ser Lys Gly Val Thr Phe Lys Glu
 20 25 30
 Leu Pro Ile Asp Gly Asp Ala Ile Lys Arg Glu Glu Met Ile Gln Arg
 35 40 45
 Ser Gly Arg Thr Thr Val Pro Gln Ile Phe Ile Asp Ala Gln His Ile
 50 55 60

Gly Gly Cys Asp Asp Leu Tyr Ala Leu Asp Ala Arg Gly Gly Leu Asp
 65 70 75 80
 Pro Leu Leu Ser
 85

<210> 6618

<211> 362

<212> PRT

<213> Enterobacter cloacae

<400> 6618

Cys Ala Val His Glu Leu Ser Thr Ala Ala Gly Trp Arg Arg Cys Arg
 1 5 10 15
 Thr Thr Ser Gly Cys Leu Met Ser Thr Val Asn Ala Ser Met Thr Val
 20 25 30
 Ile Gly Ala Gly Ser Tyr Gly Thr Ala Leu Ala Ile Thr Leu Ala Arg
 35 40 45
 Asn Gly His Asp Val Val Leu Trp Gly His Asp Pro Lys His Ile Ala
 50 55 60
 Thr Leu Gln His Asp Arg Cys Asn Val Ala Phe Leu Pro Asp Val Pro
 65 70 75 80
 Phe Pro Asp Ser Leu Tyr Leu Glu Ser Asp Leu Ala Thr Ala Leu Ala
 85 90 95
 Val Ser Arg Asn Ile Leu Ile Val Val Pro Ser His Val Phe Gly Glu
 100 105 110
 Val Leu Arg Gln Ile Lys Pro Leu Met Arg Ala Asp Ala Arg Ile Val
 115 120 125
 Trp Ala Thr Lys Gly Leu Glu Ala Glu Thr Gly Arg Leu Leu Gln Asp
 130 135 140
 Val Ala Arg Glu Ala Leu Gly Thr Ala Ile Pro Leu Ala Val Ile Ser
 145 150 155 160
 Gly Pro Thr Phe Ala Lys Glu Leu Ala Ala Gly Leu Pro Thr Ala Ile
 165 170 175
 Ser Leu Ala Ser Thr Asp Gln Ala Phe Ser Asp Asp Leu Gln Gln Leu
 180 185 190
 Leu His Cys Gly Lys Ser Phe Arg Val Tyr Ser Asn Pro Asp Phe Ile
 195 200 205
 Gly Val Gln Leu Gly Gly Ala Val Lys Asn Val Ile Ala Ile Gly Ala
 210 215 220
 Gly Met Ser Asp Gly Ile Gly Phe Gly Ala Asn Ala Arg Thr Ala Leu
 225 230 235 240
 Ile Thr Arg Gly Leu Thr Glu Met Ser Arg Leu Gly Glu Ala Leu Gly
 245 250 255
 Ala Asp Pro Ala Thr Phe Met Gly Met Ala Gly Leu Gly Asp Leu Val
 260 265 270
 Leu Thr Cys Thr Asp Asn Gln Ser Arg Asn Arg Arg Phe Gly Met Met
 275 280 285
 Leu Gly Gln Gly Ser Asp Val Lys Ser Ala Gln Glu Lys Ile Gly Gln
 290 295 300
 Val Val Glu Gly Tyr Arg Asn Thr Lys Glu Val Arg Glu Leu Ala His
 305 310 315 320
 Arg Phe Gly Val Glu Met Pro Ile Thr Glu Glu Ile Tyr Gln Val Leu
 325 330 335
 Tyr Cys Gly Lys Asn Ala Arg Glu Ala Ala Leu Thr Leu Leu Gly Arg
 340 345 350
 Ala Arg Lys Asp Glu Arg Ser Ser Asn
 355 360

<210> 6619

<211> 292

<212> PRT

<213> Enterobacter cloacae

<400> 6619

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Met Thr Gln Pro Ala Gln Asn Trp Leu Val Ile Asn Tyr Arg Leu Glu
1      5      10      15
Gln Ala Met Pro Cys Glu Glu Leu Asp Ile Val Trp Asn Asn Ile Lys
      20      25      30
Ala Glu Ala Arg Ala Leu Ala Asp Cys Glu Pro Met Leu Ala Ser Phe
      35      40      45
Tyr His Ala Thr Leu Leu Lys His Glu Asn Leu Gly Ser Ala Leu Ser
      50      55      60
Tyr Met Leu Ala Asn Lys Leu Ala Ser Pro Ile Met Pro Ala Ile Ala
65      70      75      80
Ile Arg Glu Val Val Glu Glu Ala Tyr Ala Ala Asp Pro Glu Met Ile
      85      90      95
Ala Ser Ala Ala Cys Asp Ile Gln Ala Val Arg Thr Arg Asp Pro Ala
      100     105     110
Val Asp Lys Tyr Ser Thr Pro Leu Leu Tyr Leu Lys Gly Phe His Ala
      115     120     125
Leu Gln Ala Tyr Arg Ile Gly His Trp Leu Trp Asn Glu Gly Arg Arg
130     135     140
Ala Leu Ala Ile Phe Leu Gln Asn Gln Val Ser Val Thr Phe Gln Val
145     150     155     160
Asp Ile His Pro Ala Ala Lys Ile Gly Arg Gly Ile Met Leu Asp His
      165     170     175
Ala Thr Gly Ile Val Val Gly Glu Thr Ala Val Ile Glu Asp Asp Val
      180     185     190
Ser Ile Leu Gln Ser Val Thr Leu Gly Gly Thr Gly Lys Thr Ser Gly
      195     200     205
Asp Arg His Pro Lys Ile Arg Glu Gly Val Met Ile Gly Ala Gly Ala
210     215     220
Lys Ile Leu Gly Asn Ile Glu Val Gly Arg Gly Ala Lys Ile Gly Ala
225     230     235     240
Gly Ser Val Val Leu Gln Pro Val Pro Pro His Thr Thr Ala Ala Gly
      245     250     255
Val Pro Ala Arg Ile Val Gly Lys Pro Asp Ser Asp Lys Pro Ser Met
260     265     270
Asp Met Asp Gln His Phe Asn Gly Ile His His Thr Phe Glu Tyr Gly
      275     280     285
Asp Gly Ile
290

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<210> 6620

<211> 153

<212> PRT

<213> Enterobacter cloacae

<400> 6620

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Ser Leu Ser Arg Glu Leu Leu Pro Pro Met Gln Glu Ile Met Gln Phe
1      5      10      15
Val Ser Arg His Pro Val Leu Ser Ile Ala Trp Ile Gly Leu Leu Val
      20      25      30
Ala Val Leu Phe Thr Thr Phe Lys Gly Leu Thr Ser Lys Ile Lys Val
      35      40      45
Ile Thr Arg Gly Glu Ala Thr Arg Leu Ile Asn Lys Glu Asp Ala Val
      50      55      60
Val Val Asp Leu Arg Gln Arg Asp Asp Phe Arg Lys Gly His Ile Ala
65      70      75      80
Gly Ala Ile Asn Leu Leu Pro Ala Glu Ile Lys Ala Asn Asn Ile Gly
      85      90      95
Glu Leu Glu Lys His Lys Ala Gln Pro Ile Ile Val Val Asp Gly Thr

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<210> 6621
<211> 168
<212> PRT
<213> Enterobacter cloacae
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<210> 6622
<211> 173
<212> PRT
<213> Enterobacter cloacae
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<400>	6622														
Ser	Lys	Ala	Arg	Cys	Ile	Asp	Ser	Pro	Gly	Phe	Phe	Ile	Trp	Leu	Phe
1				5					10					15	
Arg	Arg	Ser	Asp	Ala	Val	Ala	Val	Phe	Glu	Gly	Val	Val	Asn	Thr	Val
			20					25					30		
Glu	Val	Leu	Ile	His	Ile	His	Arg	Arg	Leu	Ile	Ala	Val	Trp	Leu	Thr
			35				40					45			
Asp	Asp	Ala	Arg	Arg	Asp	Ala	Ser	Gly	Gly	Gly	Val	Arg	Arg	Tyr	Arg
	50					55					60				
Leu	Glu	His	Asn	Arg	Pro	Arg	Ala	Asn	Leu	Arg	Ala	Ala	Ser	Asp	Phe
65					70					75					80
Asn	Ile	Ala	Glu	Asp	Phe	Ser	Thr	Arg	Ala	Asn	His	His	Pro	Phe	Thr
				85					90					95	
Asn	Phe	Arg	Met	Ala	Ile	Ala	Ala	Gly	Phe	Thr	Gly	Thr	Ala	Gln	Arg
			100					105					110		
Asn	Gly	Leu	Gln	Asp	Arg	His	Val	Ile	Phe	Asp	His	Arg	Arg	Phe	Thr
			115				120					125			
Asp	Asn	Asn	Ala	Gly	Gly	Val	Val	Glu	His	Asp	Pro	Thr	Ala	Asn	Phe
	130					135					140				

Arg Arg Arg Met Asn Ile Asp Leu Glu Gly His Gly Asn Leu Val Leu
 145 150 155 160
 Lys Lys Asp Gly Gln Arg Ala Ala Ser Leu Ile Pro
 165 170

<210> 6623

<211> 529

<212> PRT

<213> Enterobacter cloacae

<400> 6623

Asn Tyr Ala Lys Phe Leu Ser Leu Glu His Glu Val Val Ala Met Ser
 1 5 10 15
 Val Ser Lys Lys Pro Met Val Leu Val Ile Leu Asp Gly Tyr Gly Tyr
 20 25 30
 Arg Glu Asp Gln Gln Asp Asn Ala Ile Phe Asn Ala Lys Thr Pro Val
 35 40 45
 Met Asp Ala Leu Trp Ala Lys Arg Pro His Thr Leu Ile Asp Ala Ser
 50 55 60
 Gly Leu Glu Val Gly Leu Pro Asp Arg Gln Met Gly Asn Ser Glu Val
 65 70 75 80
 Gly His Val Asn Leu Gly Ala Gly Arg Ile Val Tyr Gln Asp Leu Thr
 85 90 95
 Arg Leu Asp Val Glu Ile Lys Glu Arg Thr Phe Phe Ala Asn Pro Thr
 100 105 110
 Leu Thr Gly Ala Val Asp Lys Ala Val Ala Ala Gly Lys Ala Val His
 115 120 125
 Ile Met Gly Leu Leu Ser Ala Gly Gly Val His Ser His Glu Asp His
 130 135 140
 Ile Met Ala Met Val Glu Leu Ala Ala Glu Arg Gly Ala Glu Lys Ile
 145 150 155 160
 Tyr Leu His Ala Phe Leu Asp Gly Arg Asp Thr Pro Pro Arg Ser Ala
 165 170 175
 Lys Gly Ser Leu Glu Ala Phe Glu Asp Lys Phe Ala Ala Leu Gly Lys
 180 185 190
 Gly Arg Val Ala Ser Ile Ile Gly Arg Tyr Tyr Ala Met Asp Arg Asp
 195 200 205
 Asn Arg Trp Asp Arg Val Glu Gln Ala Tyr Asp Leu Leu Thr Leu Ala
 210 215 220
 Lys Gly Glu Phe Gln Phe Pro Thr Ala Val Glu Gly Leu Glu Ala Ala
 225 230 235 240
 Tyr Ala Arg Asp Glu Asn Asp Glu Phe Val Lys Ala Thr Val Ile Arg
 245 250 255
 Ala Glu Gly Gln Ala Asp Ala Ala Met Glu Asp Gly Asp Ala Leu Ile
 260 265 270
 Phe Met Asn Phe Arg Ala Asp Arg Ala Arg Glu Ile Thr Arg Ala Phe
 275 280 285
 Val Asn Ser Asp Phe Asp Gly Phe Ala Arg Lys Lys Val Ala Lys Ile
 290 295 300
 Asp Phe Ile Gln Leu Thr Glu Tyr Ala Ala Asp Ile Lys Ala Pro Cys
 305 310 315 320
 Ala Tyr Pro Pro Ala Ser Leu Ala Asn Thr Phe Gly Glu Trp Met Ala
 325 330 335
 Lys Asn Asp Lys Thr Gln Leu Arg Ile Ser Glu Thr Glu Lys Tyr Ala
 340 345 350
 His Val Thr Phe Phe Phe Asn Gly Gly Val Glu Glu Pro Phe Lys Gly
 355 360 365
 Glu Asp Arg Ile Leu Ile Asn Ser Pro Lys Val Ala Thr Tyr Asp Leu
 370 375 380
 Gln Pro Glu Met Ser Ser Ala Glu Leu Thr Glu Lys Leu Val Ala Ala
 385 390 395 400

Ile	Glu	Ser	Gly	Lys	Tyr	Asp	Thr	Ile	Ile	Cys	Asn	Tyr	Pro	Asn	Gly
				405					410					415	
Asp	Met	Val	Gly	His	Thr	Gly	Val	Met	Glu	Ala	Ala	Val	Lys	Ala	Val
			420					425					430		
Glu	Ala	Leu	Asp	His	Cys	Val	Glu	Gln	Val	Ala	Lys	Ala	Val	Glu	Ser
		435					440					445			
Val	Gly	Gly	Gln	Leu	Leu	Ile	Thr	Ala	Asp	His	Gly	Asn	Ala	Glu	Gln
	450					455					460				
Met	Arg	Asp	Pro	Ala	Thr	Gly	Gln	Ala	His	Thr	Ala	His	Thr	Asn	Leu
465					470					475				480	
Pro	Val	Pro	Leu	Ile	Tyr	Val	Gly	Asp	Lys	Ser	Val	Lys	Ala	Val	Glu
				485					490					495	
Gly	Gly	Lys	Leu	Ser	Asp	Ile	Ala	Pro	Thr	Met	Leu	Ser	Leu	Met	Gly
			500					505					510		
Met	Glu	Ile	Pro	Glu	Glu	Met	Thr	Gly	Lys	Pro	Leu	Phe	Ile	Val	Glu
		515					520					525			

<210> 6624

<211> 431

<212> PRT

<213> Enterobacter cloacae

<400> 6624

Ser	Leu	Pro	Met	Arg	Gly	Lys	Ala	Ile	Phe	Ser	Ile	Thr	Trp	Val	Met
1				5					10					15	
Lys	Pro	Leu	Arg	Leu	Ser	Val	Arg	Pro	Leu	Leu	Cys	Ala	Ser	Ala	Leu
			20					25					30		
Ser	Ala	Gly	Val	Leu	Leu	Cys	Ala	Ala	Ser	Ala	His	Ala	Asp	Asp	Arg
		35					40					45			
Asp	Gln	Leu	Lys	Ser	Ile	Gln	Ala	Asp	Ile	Ala	Ala	Lys	Glu	Arg	Ala
	50					55						60			
Val	Arg	Gln	Gln	Gln	Gln	Gln	Arg	Ala	Thr	Leu	Leu	Ala	Gln	Leu	Lys
	65					70				75				80	
Lys	Gln	Glu	Glu	Ala	Ile	Ser	Ala	Ala	Ala	Arg	Lys	Leu	Arg	Glu	Thr
				85					90					95	
Gln	Asn	Thr	Leu	Ala	Gln	Leu	Asn	Lys	Gln	Ile	Asp	Glu	Met	Asn	Ala
			100					105					110		
Ser	Ile	Ala	Lys	Leu	Glu	Arg	Gln	Arg	Asp	Ala	Gln	Glu	Arg	Asn	Leu
		115					120					125			
Ala	Ala	Gln	Leu	Asp	Ala	Ala	Phe	Arg	Gln	Gly	Glu	His	Thr	Gly	Leu
		130				135						140			
Gln	Leu	Ile	Leu	Ser	Gly	Glu	Glu	Ser	Gln	Arg	Gly	Gln	Arg	Leu	Gln
					150					155				160	
Ala	Tyr	Phe	Gly	Tyr	Leu	Asn	Gln	Ala	Arg	Gln	Glu	Thr	Ile	Ala	Gln
			165						170					175	
Leu	Lys	Gln	Thr	Arg	Glu	Glu	Val	Thr	Thr	Gln	Lys	Ala	Glu	Leu	Glu
			180					185					190		
Glu	Lys	Gln	Ser	Gln	Gln	Gln	Thr	Leu	Leu	Tyr	Asp	Gln	Gln	Ala	Gln
		195					200					205			
Gln	Glu	Lys	Leu	Glu	Gln	Ala	Arg	Asn	Glu	Arg	Lys	Lys	Thr	Leu	Ala
		210				215					220				
Gly	Leu	Glu	Ser	Ser	Ile	Gln	Ala	Gly	Gln	Ser	Gln	Leu	Ser	Glu	Met
					230					235				240	
Arg	Ala	Asn	Glu	Ser	Arg	Leu	Arg	Asn	Ser	Ile	Ala	Arg	Ala	Glu	Ala
				245					250					255	
Ala	Ala	Lys	Ala	Arg	Ala	Glu	Lys	Glu	Ala	Arg	Glu	Ala	Gln	Ala	Val
			260					265					270		
Arg	Asn	Lys	Gln	Gln	Glu	Ala	Ser	Arg	Lys	Gly	Thr	Thr	Tyr	Lys	Pro
			275				280					285			

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Thr Glu Asn Glu Arg Ser Leu Met Ser Arg Thr Gly Gly Leu Gly Ser
  290      295      300
Pro Arg Gly Gln Ala Tyr Trp Pro Val Arg Gly Thr Ile Leu His Arg
305      310      315
Tyr Gly Glu Gln Leu Gln Gly Glu Leu Arg Trp Lys Gly Ile Val Ile
      325      330      335
Gly Ala Ser Glu Gly Ser Glu Val Lys Ala Ile Ala Asp Gly Arg Val
      340      345      350
Ile Leu Ala Asp Trp Leu Gln Gly Tyr Gly Leu Val Val Val Val Glu
      355      360      365
His Gly Lys Gly Asp Met Ser Leu Tyr Gly Tyr Asn Gln Ser Ala Leu
      370      375      380
Val Ser Val Gly Thr Gln Val Arg Ala Gly Gln Pro Ile Ala Leu Val
385      390      395
Gly Ser Ser Gly Gly Gln Gly Arg Pro Ser Leu Tyr Phe Glu Ile Arg
      405      410      415
Arg Gln Gly Gln Ala Val Asn Pro Gln Pro Trp Leu Gly Arg
      420      425      430

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<210> 6625

<211> 322

<212> PRT

<213> Enterobacter cloacae

<400> 6625

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Val Leu Leu Gln Phe Arg Arg Ile Val Phe Ser Val Val Ser Ala Leu
  1      5      10      15
Ala Leu Ala Ala Pro Val Tyr Ala Gly Lys Leu Ala Ile Val Ile Asp
      20      25      30
Asp Phe Gly Tyr Arg Pro His Tyr Glu Asn Gln Val Leu Ala Met Pro
      35      40      45
Ser Ala Ile Ser Val Ala Val Leu Pro Asn Ala Pro His Ala His Glu
      50      55      60
Met Ala Thr Lys Ala His Asn Gly Gly His Gln Val Leu Ile His Leu
65      70      75      80
Pro Met Ala Pro Leu Ser Lys Gln Pro Leu Glu Lys Asp Thr Leu Arg
      85      90      95
Pro Asp Met Ser Ser Asp Glu Ile Asp Arg Ile Ile Arg Asp Ala Tyr
      100      105      110
Asn Lys Val Pro Tyr Ala Val Gly Leu Asn Asn His Met Gly Ser Ala
      115      120      125
Met Thr Ser Ser Leu Tyr Gly Met Leu Lys Val Met Gln Ala Leu Glu
      130      135      140
Arg Tyr Asn Leu Tyr Phe Leu Asp Ser Met Thr Ile Gly Asn Ser Gln
145      150      155      160
Ala Met Arg Ala Ala Gln Gly Thr Gly Val Lys Val Ile Lys Arg Lys
      165      170      175
Val Phe Leu Asp Asp Ser Gln Asn Glu Ala Asp Ile Arg Val Gln Phe
      180      185      190
Asn Arg Ala Val Gln Leu Ala Arg Arg Asn Gly Ser Ala Ile Ala Ile
      195      200      205
Gly His Pro His Pro Ser Thr Val Arg Val Leu Gln Gln Met Leu Pro
      210      215      220
Gly Leu Pro Ala Asp Ile Thr Leu Val Arg Pro Ser Asp Leu Leu Asn
225      230      235      240
Glu Pro Gln Val Asp Thr Ser Arg Pro Gly Ser Ala Gln Pro Pro Ala
      245      250      255
Thr Arg Pro Arg Asn Pro Phe Arg Gly Val Lys Asn Cys Thr Leu Lys
      260      265      270
Gln Pro Pro Glu Pro Val Tyr Ala Thr Arg Phe Phe Thr Val Ile Gly
      275      280      285

```

Glu Ser Ile Asn Ser Ser Thr Leu Val Lys Ile Arg Pro Ala Thr Val
 290 295 300
 Ala Gly Leu Gly Lys Lys Asn Pro Asp Arg Val Asn Pro Ile Pro Ala
 305 310 315 320
 Arg

<210> 6626
 <211> 139
 <212> PRT
 <213> Enterobacter cloacae

<400> 6626
 Ile Val His Glu Gln Arg Ile Lys Val Tyr Trp Arg Glu Val Gln Leu
 1 5 10 15
 Arg Glu Cys Thr Ala Arg Asn Gln Ala Gly Asp Ala Phe Thr Arg Ile
 20 25 30
 Arg Glu Gln Asp Val Arg Ala Val Cys Thr Gln Ala Met Arg His Leu
 35 40 45
 Val Thr Phe Asp Ala Ala Asp Gly Glu Asp Thr Ala Leu Leu Asn Phe
 50 55 60
 Ala Gln Glu Arg Ser Phe Phe Ala Gln Arg Gly Gly His Gly Asp Thr
 65 70 75 80
 Gln Tyr Asp Phe Ile His Ile Ile Arg Gln Leu Gly Gly Cys Gly Ile
 85 90 95
 Gln Ile Lys Phe Asn Leu Trp Leu Pro Val Phe Leu Glu Asn Val Arg
 100 105 110
 Arg Ile Trp Arg Phe Glu Arg Asp Ile Leu Gly Val Asp Ala Leu Asp
 115 120 125
 Leu Glu Ser His Leu Gly Val Ile Leu Phe
 130 135

<210> 6627
 <211> 202
 <212> PRT
 <213> Enterobacter cloacae

<400> 6627
 Arg Arg His Ser Lys Gly Asp Asp Val Tyr Val Met Asp Ile Asn Gly
 1 5 10 15
 Leu Ile Glu Gln Tyr Gly Tyr Ala Ala Leu Val Ile Gly Ser Val Ala
 20 25 30
 Glu Gly Glu Thr Ile Thr Leu Leu Gly Gly Val Ala Ala His Gln Gly
 35 40 45
 Leu Leu Lys Phe Ser Leu Val Val Ala Ala Val Ala Leu Gly Gly Met
 50 55 60
 Ile Gly Asp Gln Leu Leu Tyr Phe Leu Gly Leu Arg Phe Gly Pro Thr
 65 70 75 80
 Leu Leu Gln Arg Phe Ala Arg His Gln Lys Lys Ile Arg Arg Ala Gln
 85 90 95
 Arg Leu Ile Gln Arg His Pro Tyr Leu Phe Val Ile Gly Thr Arg Phe
 100 105 110
 Met Tyr Gly Phe Arg Ile Ile Gly Pro Ile Leu Ile Gly Ala Ser Arg
 115 120 125
 Leu Pro Pro Lys Ile Phe Leu Pro Leu Asn Ile Leu Gly Ala Ile Ala
 130 135 140
 Trp Ala Leu Ile Phe Thr Leu Gly Tyr Ala Gly Gly Glu Val Ile
 145 150 155 160
 Gly Pro Trp Leu His Asn Leu Asp Gln His Leu Lys His Trp Ala Trp
 165 170 175
 Leu Ile Leu Val Val Ala Val Val Ile Gly Val Arg Leu Trp Leu Lys

180 185 190
 His Arg Glu Lys Arg Arg Asp Glu Glu
 195 200

<210> 6628
 <211> 144
 <212> PRT
 <213> Enterobacter cloacae

<400> 6628
 Leu Tyr Asp Glu Tyr Val Ser Ala Arg Thr Phe Thr Met Ser Lys Ser
 1 5 10 15
 Leu Asn Thr Ile Trp Gln Tyr Leu Arg Ala Phe Val Leu Ile Tyr Ala
 20 25 30
 Cys Leu Tyr Ala Gly Ile Phe Ile Ala Ser Leu Leu Pro Ile Thr Ile
 35 40 45
 Pro Gly Ser Ile Ile Gly Met Leu Ile Leu Phe Val Leu Leu Ala Leu
 50 55 60
 Gln Val Leu Pro Ala Lys Trp Val Asn Pro Gly Cys Phe Val Leu Ile
 65 70 75 80
 Arg Tyr Met Ala Leu Phe Val Pro Ile Gly Val Gly Val Met Gln
 85 90 95
 Tyr Tyr Asp Val Leu Lys Ala Gln Phe Gly Pro Ile Val Val Ser Cys
 100 105 110
 Ala Ile Ser Thr Leu Val Val Phe Leu Val Val Ser Trp Ser Ser His
 115 120 125
 Ile Val His Gly Glu Arg Lys Val Val Gly Glu Lys Thr Lys Lys
 130 135 140

<210> 6629
 <211> 120
 <212> PRT
 <213> Enterobacter cloacae

<400> 6629
 Ile Arg His His Ala Asp Cys His Gly Arg Gly Arg Gln His Arg Gly
 1 5 10 15
 His Ser Gly His Gln Arg Arg Val Arg Asp Phe Arg Arg Tyr Pro Gly
 20 25 30
 Arg Gly Val Trp Ser Tyr Ala Ala Glu Tyr His Glu Asn Ser Tyr Gln
 35 40 45
 Ser Gly Thr Arg Ser Gly Asp Gly Tyr Arg Leu Ala Arg Ala Gly His
 50 55 60
 Arg Thr Leu Arg Gly Thr Gly Leu Ser Gly Arg Gly Ile Gln Leu Ala
 65 70 75 80
 Gly Ala Gly Asp Leu Arg Asp Tyr His Phe Pro Gly Arg Ala Val Tyr
 85 90 95
 Leu Pro Asp Tyr Ser Gly Ser Asn Gly Leu Lys Phe Ala Met Arg Arg
 100 105 110
 Ala Asn Phe Ile Phe Ile Ser
 115 120

<210> 6630
 <211> 298
 <212> PRT
 <213> Enterobacter cloacae

<400> 6630
 Gly Asn Val Met His Pro Arg Phe Gln Ala Ala Phe Ser Gln Leu Ala
 1 5 10 15
 Glu Asn Leu Gln Ser Ala Leu Ala Pro Val Leu Ala Asp Ala His Phe

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<210> 6631
<211> 240
<212> PRT
<213> Enterobacter cloacae
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Gly 1	Arg	Arg	Gly	Glu 5	Asn	Lys	Lys	Met	Met 10	Ala	Asn	Ile	Trp	Trp 15	Ser
Leu	Pro	Leu	Thr 20	Leu	Val	Val	Phe	Phe 25	Ala	Ala	Arg	Lys	Leu	Ala 30	Val
Arg	Phe	Lys 35	Met	Pro	Leu	Leu	Asn 40	Pro	Leu	Leu	Val	Ala 45	Met	Val	Val
Ile	Ile 50	Pro	Phe	Leu	Leu	Leu 55	Thr	Gly	Ile	Ser	Tyr 60	Glu	Arg	Tyr	Phe
Ala 65	Gly	Ser	Lys	Ile	Leu 70	Asn	Asp	Leu	Leu	Gln 75	Pro	Ala	Val	Val	Ala 80
Leu	Ala	Phe	Pro	Leu 85	Tyr	Glu	Gln	Leu	His 90	Gln	Ile	Arg	Ala	Arg 95	Trp
Lys	Ser	Ile	Ile 100	Thr	Ile	Cys	Phe	Val 105	Gly	Ser	Leu	Val	Ala 110	Met	Ile
Thr	Gly	Thr 115	Ser	Val	Ala	Leu	Met 120	Met	Gly	Ala	Ser	Pro 125	Gln	Ile	Ala
Ala	Ser 130	Ile	Leu	Pro	Lys	Ser 135	Val	Thr	Thr	Pro	Ile 140	Ala	Met	Ala	Val
Gly	Gly	Ser	Ile	Gly	Gly	Ile	Pro	Ala	Ile	Ser	Ala	Val	Cys	Val	Ile

145		150		155		160									
Phe	Val	Gly	Ile	Leu	Gly	Ala	Val	Phe	Gly	His	Thr	Leu	Leu	Asn	Ile
		165							170					175	
Met	Lys	Ile	Arg	Thr	Lys	Ala	Ala	Arg	Gly	Leu	Ala	Met	Gly	Thr	Ala
		180							185				190		
Ser	His	Ala	Leu	Gly	Thr	Ala	Arg	Cys	Ala	Glu	Leu	Asp	Tyr	Gln	Glu
		195					200					205			
Gly	Ala	Phe	Ser	Ser	Leu	Ala	Leu	Val	Ile	Cys	Gly	Ile	Ile	Thr	Ser
	210					215					220				
Leu	Val	Ala	Pro	Phe	Ile	Phe	Pro	Ile	Ile	Leu	Ala	Val	Met	Gly	
225					230					235					240

<210> 6632

<211> 255

<212> PRT

<213> Enterobacter cloacae

<400> 6632

Pro	Gly	Gly	Tyr	Ser	Ser	Leu	Arg	Glu	Ile	Ser	Ser	Ser	Val	Arg	Ala
1				5					10					15	
Ile	Cys	Met	Leu	Lys	Arg	Val	Phe	Tyr	Ser	Leu	Ser	Val	Leu	Val	Gly
		20						25					30		
Ile	Leu	Leu	Leu	Ile	Val	Leu	Gly	Leu	Asp	Arg	Trp	Met	Ser	Trp	Lys
		35					40					45			
Thr	Ala	Pro	Tyr	Ile	Phe	Asp	Asp	Leu	Gln	Asp	Leu	Pro	Tyr	Arg	Gln
	50					55					60				
Val	Gly	Val	Val	Leu	Gly	Thr	Ala	Lys	Tyr	Tyr	Arg	Thr	Gly	Val	Ile
65					70					75					80
Asn	Gln	Tyr	Tyr	Arg	Tyr	Arg	Ile	Gln	Gly	Ala	Leu	Asn	Ala	Tyr	Asn
				85					90					95	
Ser	Gly	Lys	Val	Asn	Tyr	Leu	Leu	Leu	Ser	Gly	Asp	Asn	Ala	Leu	Gln
		100						105					110		
Ser	Tyr	Asn	Glu	Pro	Val	Thr	Met	Arg	Lys	Asp	Leu	Ile	Ala	Ala	Gly
		115					120					125			
Val	Asp	Pro	Ala	Asp	Ile	Val	Leu	Asp	Tyr	Ala	Gly	Phe	Arg	Thr	Leu
	130					135					140				
Asp	Ser	Ile	Val	Arg	Thr	Arg	Lys	Val	Phe	Asp	Thr	Asn	Asp	Phe	Ile
145					150					155					160
Ile	Ile	Thr	Gln	Arg	Phe	His	Cys	Glu	Arg	Ala	Leu	Phe	Ile	Ala	Leu
				165					170					175	
His	Met	Gly	Ile	Gln	Ala	Gln	Cys	Tyr	Ala	Val	Pro	Ser	Pro	Lys	Asp
		180						185					190		
Met	Leu	Ser	Val	Arg	Val	Arg	Glu	Phe	Gly	Ala	Arg	Phe	Gly	Ala	Leu
		195					200					205			
Ala	Asp	Leu	Tyr	Leu	Phe	Lys	Arg	Glu	Pro	Arg	Phe	Leu	Gly	Pro	Leu
	210					215					220				
Val	Pro	Ile	Pro	Thr	Met	His	Glu	Val	Pro	Glu	Asp	Ala	Gln	Gly	Tyr
225					230					235					240
Pro	Ala	Val	Thr	Pro	Glu	Gln	Leu	Leu	Glu	Ile	Gln	Lys	Lys		
				245					250					255	

<210> 6633

<211> 326

<212> PRT

<213> Enterobacter cloacae

<400> 6633

Arg	Ala	Ala	Thr	Ile	Ala	Arg	Leu	Phe	Ser	Gln	Val	Leu	Arg	Met	Arg
1				5					10					15	
Val	Leu	Leu	Ala	Pro	Met	Glu	Gly	Val	Leu	Asp	Ser	Leu	Val	Arg	Glu
		20						25					30		

Leu Leu Thr Glu Val Asn Asp Tyr Asp Leu Cys Val Thr Glu Phe Leu
 35 40 45
 Arg Val Val Asp Met Leu Leu Pro Glu Lys Ser Phe Tyr Arg Leu Cys
 50 55 60
 Pro Glu Leu His Arg Gln Ser Arg Thr Pro Ser Gly Thr Leu Val Arg
 65 70 75 80
 Val Gln Leu Leu Gly Gln Tyr Pro Glu Trp Leu Ala Glu Asn Ala Ala
 85 90 95
 Arg Ala Val Ala Leu Gly Ser Tyr Gly Val Asp Leu Asn Cys Gly Cys
 100 105 110
 Pro Ser Lys Leu Val Asn Gly Ser Gly Gly Gly Ala Thr Leu Leu Lys
 115 120 125
 Asp Pro Glu Leu Ile Tyr Arg Gly Ala Lys Ala Met Arg Glu Ala Val
 130 135 140
 Pro Ser His Leu Pro Val Thr Val Lys Val Arg Leu Gly Trp Asp Ser
 145 150 155 160
 Gly Asp Lys Gln Phe Glu Ile Ala Asp Ala Val Gln Gln Ala Gly Ala
 165 170 175
 Thr Glu Leu Val Val His Gly Arg Thr Lys Glu Asp Gly Tyr Lys Ala
 180 185 190
 Glu Arg Ile Asn Trp Gln Ala Ile Gly Glu Ile Arg Lys Arg Leu Thr
 195 200 205
 Ile Pro Val Ile Ala Asn Gly Glu Ile Trp Asp Tyr Glu Ser Ala Gln
 210 215 220
 Ala Cys Leu Lys Glu Thr Gly Cys Asn Ala Val Met Ile Gly Arg Gly
 225 230 235 240
 Ala Leu Asn Val Pro Asn Leu Ser Arg Val Val Lys Tyr Asn Glu Pro
 245 250 255
 Arg Met Pro Trp Ala Asp Val Val Lys Leu Leu Gln Lys Tyr Thr Arg
 260 265 270
 Leu Glu Lys Gln Gly Asp Thr Gly Leu Tyr His Val Ala Arg Ile Lys
 275 280 285
 Gln Trp Leu Ser Tyr Leu Arg Lys Glu Tyr Asp Asp Ala Leu Gly Leu
 290 295 300
 Phe Gln Glu Ile Arg Thr Leu Gln Thr Ser Ala Asp Ile Ala Arg Val
 305 310 315 320
 Ile Gln Ser Lys Ser
 325

<210> 6634

<211> 179

<212> PRT

<213> Enterobacter cloacae

<400> 6634

Ile Ile Ile Arg Ser Leu Ile Met Leu Lys Phe Arg Val Ser Leu Leu
 1 5 10 15
 Ser Leu Ala Leu Leu Gly Val Ser Ala Thr Ala Pro Ala Ile Ala
 20 25 30
 Lys Thr Thr Ala Val Ala Thr Ala Ala Gln Pro Gln Ile Ala Ser
 35 40 45
 Gly Ser Ala Met Ile Val Asp Leu Asn Thr Asn Lys Val Ile Tyr Ala
 50 55 60
 Ser His Pro Asp Leu Val Arg Pro Ile Ala Ser Ile Thr Lys Val Met
 65 70 75 80
 Thr Ala Met Val Val Leu Asp Ala Arg Leu Pro Leu Asp Glu Lys Leu
 85 90 95
 Lys Val Asp Ile Ser His Thr Pro Glu Met Lys Gly Ile Tyr Ser Arg
 100 105 110
 Val Arg Leu Lys Ser Glu Ile Ser Arg Lys Asn Met Leu Leu Leu Ala
 115 120 125

Leu Met Ser Ser Glu Asn Arg Ala Gly Gly Glu Pro Cys Pro Pro Leu
 130 135 140
 Ser Trp Arg Leu Arg Arg Val Tyr Pro Arg Asp Glu Cys Gln Ser Gln
 145 150 155 160
 Ser Ala Gly Asp Glu Lys Tyr Pro Phe Arg Gly Ala Asn Arg Ser Val
 165 170 175
 Asp Pro

<210> 6635
 <211> 310
 <212> PRT
 <213> Enterobacter cloacae

<400> 6635
 Ser Lys Asn Ser Gly Ala Gln Arg Ala Tyr Cys Arg Val Asp Ala Glu
 1 5 10 15
 Arg Ser Val Arg Gly Cys His Ala Pro Ala His Leu Arg Ala Gly Trp
 20 25 30
 Arg Ile Ser Ser Arg Leu Thr Leu Arg Ile Ile Tyr Thr Tyr Leu Phe
 35 40 45
 Ala Asp Phe Gln Glu Val Ser Met Thr Arg Val Ala Ile Val Thr Ala
 50 55 60
 Ser Asp Ser Gly Ile Gly Lys Thr Thr Ala Leu Met Leu Ala Glu Arg
 65 70 75 80
 Gly Phe Asp Ile Gly Val Thr Trp His Ser Asp Glu Glu Gly Ala Leu
 85 90 95
 Glu Thr Cys Arg Glu Val Glu Ala Arg Gly Gln Arg Ala Glu Ala Ile
 100 105 110
 His Leu Asp Leu Gly Thr Leu Pro Glu Gly Ala Lys Ala Ile Glu Thr
 115 120 125
 Leu Ile Ser Arg Phe Gly Arg Leu Asp Val Leu Val Asn Asn Ala Gly
 130 135 140
 Ala Met Asn Lys Ala Pro Phe Leu Glu Leu Ser Phe Asp Asp Trp Arg
 145 150 155 160
 Asn Ile Phe Thr Val Asp Val Asp Gly Ala Phe Leu Cys Ser Gln Ile
 165 170 175
 Ala Ala Arg Gln Met Val Lys Gln Gly Glu Gly Gly Arg Ile Val Asn
 180 185 190
 Ile Thr Ser Val His Glu His Thr Pro Leu Pro Asp Ala Ser Ala Tyr
 195 200 205
 Thr Ala Ala Lys His Ala Leu Gly Gly Leu Thr Lys Ser Met Ala Leu
 210 215 220
 Glu Leu Val Gln His Lys Ile Leu Val Asn Ala Val Ala Pro Gly Ala
 225 230 235 240
 Ile Ala Thr Pro Met Asn Asp Met Asp Asp Ser Glu Val Lys Glu Gly
 245 250 255
 Ser Met Pro Glu Ile Pro Leu Ala Arg Pro Gly His Thr Lys Glu Ile
 260 265 270
 Ala Ser Leu Val Ala Trp Leu Cys Asp Ser Asp Ala Ser Tyr Thr Thr
 275 280 285
 Gly Gln Ser Phe Ile Val Asp Gly Gly Phe Met Leu Ala Asn Pro Gln
 290 295 300
 Phe Lys Pro Glu Gly
 305 310

<210> 6636
 <211> 215
 <212> PRT
 <213> Enterobacter cloacae

<400> 6636

Ser Lys Ala Cys Ile Ile Leu Lys Leu Ser Leu Thr Gly Arg Gln Gln
 1 5 10 15
 Gly Gly Val Met Asn His Val Trp Gly Leu Phe Ser His Pro Asp Arg
 20 25 30
 Glu Met Gln Val Ile Arg Asn Glu Asn Glu Thr Val Ala His His Tyr
 35 40 45
 Thr His His Val Leu Leu Met Ala Ala Val Pro Val Val Cys Ala Phe
 50 55 60
 Ile Gly Thr Thr Gln Ile Gly Trp Asn Phe Gly Asp Gly Thr Val Val
 65 70 75 80
 Gln Leu Ser Trp Phe Thr Gly Leu Tyr Leu Ala Ile Leu Phe Tyr Gly
 85 90 95
 Leu Met Leu Ala Gly Val Ala Val Met Gly Arg Val Ile His Trp Met
 100 105 110
 Ala Arg Asn Tyr Pro Gln Arg Pro Ser Leu Ala His Cys Met Val Phe
 115 120 125
 Ala Gly Tyr Val Ala Thr Pro Leu Phe Leu Ser Gly Ile Val Ala Leu
 130 135 140
 Tyr Pro Leu Val Trp Leu Cys Ala Leu Ile Gly Thr Val Ala Leu Phe
 145 150 155 160
 Tyr Thr Gly Tyr Leu Leu Tyr Val Gly Val Pro Thr Phe Leu Asn Ile
 165 170 175
 Asn Lys Glu Glu Gly Leu Ser Phe Ser Ser Ser Thr Leu Ala Ile Gly
 180 185 190
 Val Leu Val Leu Glu Ala Leu Leu Ala Leu Thr Val Ile Leu Trp Gly
 195 200 205
 Tyr Gly Tyr Arg Leu Phe
 210 215

<210> 6637

<211> 89

<212> PRT

<213> Enterobacter cloacae

<400> 6637

Cys Pro Gln Arg Thr Ala Arg Ala Ala Ser Leu Ala His His Tyr Pro
 1 5 10 15
 Gly Gly Tyr Asp Ala Phe Ile Arg Ala Met Asn Ala Lys Ala Lys Ala
 20 25 30
 Leu Gly Met Lys Asn Thr His Phe Val Glu Pro Thr Gly Leu Ser Ile
 35 40 45
 His Asn Val Ser Thr Gly Arg Asp Leu Thr Lys Leu Leu Ile Ala Ser
 50 55 60
 Lys Gln Tyr Pro Leu Ile Gly Gln Leu Asn Thr Thr Pro Glu Glu Met
 65 70 75 80
 Ala Asn Phe Ser Lys Pro Gly Val
 85

<210> 6638

<211> 477

<212> PRT

<213> Enterobacter cloacae

<400> 6638

Val His Gly Val Met Lys Arg Ser Leu Thr Leu Ser Leu Ser Ala Pro
 1 5 10 15
 Leu Val Phe Met Leu Ala Ala Cys Ala Pro Glu His Ala Thr Val Ser
 20 25 30
 Pro Val Lys Thr Gln Ala Ala Ala Ala Thr Val Asn Thr Gln Leu Arg
 35 40 45

His Ala Asp Trp Pro Lys Ser Glu Trp Trp Lys Asp Phe Asn Asp Ser
 50 55 60
 Gln Leu Asn Ala Leu Ile Asp Lys Ala Leu Ala Asp Ala Pro Asp Met
 65 70 75 80
 Gln Ile Ala Arg Gln Arg Ile Thr Leu Ala Glu Ala Gln Ala Lys Ala
 85 90 95
 Ala Val Ala Ala Glu Gly Pro Gln Leu Asp Phe Ser Ala Asp Val Glu
 100 105 110
 Arg Gln Lys Met Ser Ala Glu Gly Leu Met Gly Pro Phe Ala Leu Thr
 115 120 125
 Asp Pro Ala Ala Gly Thr Thr Gly Pro Trp Tyr Thr Asn Gly Thr Phe
 130 135 140
 Gly Leu Thr Ala Gly Trp Asp Leu Asp Leu Trp Gly Lys Asn Arg Ala
 145 150 155 160
 Gln Ile Glu Ala Arg Ile Gly Lys Val Asn Ala Gln Lys Ala Glu Leu
 165 170 175
 Glu Gln Thr Arg Gln Leu Leu Ala Ser Ser Val Ala Arg Leu Tyr Trp
 180 185 190
 Asp Trp Gln Thr Glu Ala Ala Val Gly Asp Val Leu Ala Gln Ile Lys
 195 200 205
 Arg Glu Gln Glu Asn Ile Ile Gly Ala Asp Arg Glu Leu Tyr Gln His
 210 215 220
 Gly Ile Thr Ser Ser Val Glu Gly Val Glu Thr Asp Ile Ser Ala Ser
 225 230 235 240
 Lys Thr Asp Glu Gln Leu Ala Asp Val His Gly Lys Met Lys Ala Ile
 245 250 255
 Glu Ala Arg Leu Asn Ala Leu Thr Asn Thr Pro Ser Val Thr Leu Ala
 260 265 270
 Arg His Ala Leu Pro Asp Ala Glu Ala Ser Leu Pro Ser Thr Leu Gly
 275 280 285
 Tyr Glu Leu Leu Ala Arg Arg Pro Asp Leu Gln Glu Ala His Trp Tyr
 290 295 300
 Ile Glu Ala Ser Met Ser Glu Val Asp Ala Ala Arg Ala Ala Phe Tyr
 305 310 315 320
 Pro Asp Ile Asn Leu Met Ala Phe Leu Gln Gln Asp Ala Leu His Leu
 325 330 335
 Ser Asp Leu Phe Arg Ser Ser Ala Gln Gln Met Gly Val Thr Ala Gly
 340 345 350
 Leu Thr Leu Pro Ile Phe Asp Ser Gly Arg Leu Asn Ala Asn Leu Asp
 355 360 365
 Ile Ala Gln Ala Gln Asn Asn Leu Ser Val Ala Asn Tyr Asn Lys Ala
 370 375 380
 Val Val Asp Ala Val Asn Gln Val Ala Arg Thr Ala Ser Glu Val Glu
 385 390 395 400
 Thr Leu Thr Ala Lys Asn Gln His Gln Gln Gln Ile Glu Lys Asp Ala
 405 410 415
 Ala Arg Val Val Ala Leu Ala Gln Ala Arg Phe Arg Ala Gly Ile Ile
 420 425 430
 Ala Gly Ser Arg Val Ser Glu Ala Lys Ile Pro Ala Leu Lys Glu Arg
 435 440 445
 Ile Ala Gly Leu Met Leu Lys Gly Gln Tyr Val Asp Ala Thr Leu Gln
 450 455 460
 Leu Thr Ser Ala Leu Gly Gly Gly Tyr His His Gly
 465 470 475

<210> 6639

<211> 853

<212> PRT

<213> Enterobacter cloacae

<400> 6639

Val	Lys	Pro	Gly	Ala	Ile	Ser	Tyr	Leu	Pro	Met	Asn	Asn	Thr	Ser	Glu
1				5					10					15	
Tyr	Ile	Asp	Ala	Met	Pro	Leu	Thr	Asp	Ile	Lys	Lys	Ala	Ala	Leu	Pro
			20					25					30		
Ala	Ser	Asp	Ile	Arg	Ala	Val	His	Thr	Ala	Leu	Asp	Gly	Glu	His	Arg
		35					40					45			
His	Phe	Ser	Arg	Asp	Asp	Asp	Thr	Pro	Leu	Gly	Ser	Val	Lys	Ala	Arg
	50					55					60				
Leu	Glu	Gln	Ala	Trp	Pro	Asp	Ser	Leu	Ala	Glu	Gly	Gln	Leu	Ile	Lys
65					70					75					80
Asp	Asp	Glu	Gly	Arg	Asp	Gln	Leu	Gln	Ala	Met	Pro	Lys	Ala	Thr	Arg
				85					90					95	
Ser	Ser	Met	Phe	Pro	Asp	Pro	Trp	Arg	Thr	Asn	Pro	Val	Gly	Arg	Phe
			100					105					110		
Trp	Asp	Arg	Leu	Arg	Gly	Arg	Asp	Val	Thr	Pro	Arg	Tyr	Leu	Ser	Arg
		115					120					125			
Leu	Thr	Lys	Glu	Gln	Gln	Ala	Ser	Glu	Gln	Lys	Trp	Arg	Thr	Val	Gly
	130					135					140				
Thr	Ile	Arg	Arg	Tyr	Ile	Leu	Leu	Leu	Leu	Thr	Leu	Ala	Gln	Thr	Val
145					150					155					160
Val	Ala	Thr	Trp	Tyr	Met	Lys	Thr	Ile	Leu	Pro	Tyr	Gln	Gly	Trp	Ala
				165				170						175	
Leu	Ile	Asn	Pro	Ala	Asp	Met	Ile	Gly	Gln	Asp	Ile	Trp	Val	Ser	Phe
			180					185					190		
Met	Gln	Leu	Leu	Pro	Tyr	Ile	Leu	Gln	Ser	Gly	Ile	Leu	Leu	Leu	Phe
		195					200					205			
Ala	Val	Leu	Phe	Cys	Trp	Val	Ser	Ala	Gly	Phe	Trp	Thr	Ala	Leu	Met
	210					215					220				
Gly	Phe	Leu	Gln	Leu	Leu	Met	Gly	Arg	Asp	Lys	Tyr	Ser	Ile	Ser	Ala
225					230					235					240
Ser	Thr	Val	Gly	Asp	Glu	Pro	Leu	Asn	Pro	Glu	His	Arg	Thr	Ala	Leu
				245					250					255	
Ile	Met	Pro	Ile	Cys	Asn	Glu	Asp	Val	Asp	Arg	Val	Phe	Ala	Gly	Leu
			260					265					270		
Arg	Ala	Thr	Trp	Glu	Ser	Val	Lys	Ala	Thr	Gly	Asn	Ala	Ala	His	Phe
		275					280					285			
Asp	Val	Tyr	Ile	Leu	Ser	Asp	Ser	Tyr	Asn	Pro	Asp	Ile	Cys	Val	Ala
	290					295					300				
Glu	Gln	Lys	Ala	Trp	Met	Glu	Leu	Ile	Ala	Glu	Val	Gln	Gly	Glu	Gly
305					310					315					320
Gln	Ile	Phe	Tyr	Arg	Arg	Arg	Arg	Arg	Arg	Val	Lys	Arg	Lys	Ser	Gly
				325				330						335	
Asn	Ile	Asp	Asp	Phe	Cys	Arg	Arg	Trp	Gly	Asn	Gln	Tyr	Ser	Tyr	Met
			340					345					350		
Val	Val	Leu	Asp	Ala	Asp	Ser	Val	Met	Ser	Gly	Asp	Cys	Leu	Ser	Gly
		355					360					365			
Leu	Val	Arg	Leu	Met	Glu	Ala	Asn	Pro	Asn	Ala	Gly	Ile	Ile	Gln	Ser
	370					375					380				
Ser	Pro	Lys	Ala	Ser	Gly	Met	Asp	Thr	Leu	Tyr	Ala	Arg	Cys	Gln	Gln
385					390					395					400
Phe	Ala	Thr	Arg	Val	Tyr	Gly	Pro	Leu	Phe	Thr	Ala	Gly	Leu	His	Phe
				405					410					415	
Trp	Gln	Leu	Gly	Glu	Ser	His	Tyr	Trp	Gly	His	Asn	Ala	Ile	Ile	Arg
			420					425					430		
Val	Lys	Pro	Phe	Ile	Glu	His	Cys	Ala	Leu	Ala	Pro	Leu	Pro	Gly	Glu
		435					440					445			
Gly	Ser	Phe	Ala	Gly	Ser	Ile	Leu	Ser	His	Asp	Phe	Val	Glu	Ala	Ala
	450					455					460				
Leu	Met	Arg	Arg	Ala	Gly	Trp	Gly	Val	Trp	Ile	Ala	Tyr	Asp	Leu	Pro
465					470					475					480
Gly	Ser	Tyr	Glu	Glu	Leu	Pro	Pro	Asn	Leu	Leu	Asp	Glu	Leu	Lys	Arg

				485					490				495				
Asp	Arg	Arg	Trp	Cys	His	Gly	Asn	Leu	Met	Asn	Phe	Arg	Leu	Phe	Leu		
			500					505					510				
Val	Lys	Gly	Met	His	Pro	Val	His	Arg	Ala	Val	Phe	Leu	Thr	Gly	Val		
		515					520					525					
Met	Ser	Tyr	Leu	Ser	Ala	Pro	Leu	Trp	Phe	Met	Phe	Leu	Ala	Leu	Ser		
	530					535					540						
Thr	Ala	Leu	Gln	Val	Val	His	Ala	Leu	Thr	Glu	Pro	Gln	Tyr	Phe	Leu		
545					550					555					560		
Gln	Pro	Arg	Gln	Leu	Phe	Pro	Val	Trp	Pro	Gln	Trp	Arg	Pro	Glu	Leu		
			565						570					575			
Ala	Ile	Ala	Leu	Phe	Ala	Ser	Thr	Met	Val	Leu	Leu	Phe	Leu	Pro	Lys		
		580						585					590				
Leu	Leu	Ser	Ile	Ile	Leu	Ile	Trp	Cys	Lys	Gly	Ser	Lys	Glu	Tyr	Gly		
		595					600					605					
Gly	Phe	Cys	Arg	Val	Thr	Leu	Ser	Leu	Leu	Leu	Glu	Val	Leu	Phe	Ser		
	610					615					620						
Val	Leu	Leu	Ala	Pro	Val	Arg	Met	Leu	Phe	His	Thr	Val	Phe	Val	Val		
625					630					635					640		
Ser	Ala	Phe	Leu	Gly	Trp	Glu	Val	Val	Trp	Asn	Ser	Pro	Gln	Arg	Asp		
			645						650					655			
Asp	Asp	Ser	Thr	Pro	Trp	Ser	Glu	Ala	Phe	Met	Arg	His	Gly	Ser	Gln		
			660					665					670				
Leu	Leu	Leu	Gly	Leu	Val	Trp	Ala	Val	Gly	Met	Ala	Trp	Leu	Asp	Leu		
		675					680					685					
Arg	Phe	Leu	Phe	Trp	Leu	Ala	Pro	Ile	Val	Phe	Ser	Leu	Ile	Leu	Ser		
	690					695					700						
Pro	Phe	Val	Ser	Val	Ile	Ser	Ser	Arg	Ser	Thr	Val	Gly	Leu	Arg	Thr		
705					710					715					720		
Lys	Arg	Trp	Lys	Leu	Phe	Leu	Ile	Pro	Glu	Tyr	Ser	Pro	Pro	Gln			
			725						730					735			
Val	Leu	Val	Asp	Thr	Asp	Thr	Tyr	Leu	Glu	Gln	Asn	Arg	Lys	Arg	Thr		
			740					745					750				
Leu	Asp	Asp	Gly	Phe	Met	His	Ala	Val	Phe	Asn	Pro	Ser	Phe	Asn	Ala		
		755					760					765					
Leu	Ala	Thr	Ala	Met	Ala	Thr	Ala	Arg	His	Arg	Ala	Ser	Gln	Val	Leu		
		770				775					780						
Glu	Ile	Ala	Arg	Asp	Arg	His	Val	Glu	Gln	Ala	Leu	Asn	Glu	Thr	Pro		
785					790					795					800		
Glu	Lys	Leu	Asn	Arg	Asp	Arg	Arg	Leu	Val	Leu	Leu	Ser	Asp	Pro	Val		
			805						810				815				
Thr	Met	Ala	Arg	Leu	His	Tyr	Arg	Val	Trp	Ser	Ala	Pro	Glu	Arg	Tyr		
		820						825					830				
Ser	Ser	Trp	Val	Asn	Tyr	Tyr	Lys	Asp	Val	Lys	Leu	Asn	Pro	Leu	Ala		
		835					840					845					
Leu	Lys	Ala	Lys														
		850															

<210> 6640

<211> 79

<212> PRT

<213> Enterobacter cloacae

<400> 6640

Arg	Ser	Asp	Met	Lys	Val	Ile	Ile	Val	Val	Met	Met	Ala	Cys	Leu	Leu		
1				5					10					15			
Ser	Gly	Cys	Gly	Ser	Ile	Ile	Ser	Arg	Thr	Ile	Pro	Gly	Gln	Gly	His		
		20						25					30				
Gly	Asn	Gln	Tyr	Tyr	Pro	Gly	Val	Gln	Trp	Asp	Val	Arg	Asp	Ser	Ala		
		35					40					45					
Trp	Arg	Tyr	Leu	Thr	Val	Ile	Asp	Leu	Pro	Phe	Ser	Leu	Ile	Phe	Asp		

50		55		60									
Thr	Leu	Leu	Leu	Pro	Ile	Asp	Ala	Ser	His	Gly	Pro	Tyr	Glu
65					70					75			

<210> 6641

<211> 379

<212> PRT

<213> Enterobacter cloacae

<400> 6641

Arg	Lys	Leu	Cys	Gly	Cys	Lys	Leu	Ser	Leu	Phe	Ala	Ile	Ser	Cys	Arg
1			5						10					15	
Pro	Ile	Phe	Ile	Ser	Gln	Arg	Leu	Gln	Asp	Leu	Tyr	Thr	Met	Pro	Val
			20					25					30		
Leu	His	Asn	Arg	Val	Ser	Asn	Glu	Met	Leu	Lys	Ala	Arg	Met	Leu	Ala
		35					40					45			
Glu	Thr	Glu	Pro	Arg	Thr	Thr	Ile	Ser	Phe	Tyr	Lys	Tyr	Phe	Thr	Ile
	50					55					60				
Asp	Asp	Pro	Gln	Ala	Thr	Arg	Asp	Ala	Leu	Tyr	Gln	Ala	Phe	Thr	Ala
65					70				75						80
Leu	Asn	Val	Phe	Gly	Arg	Val	Tyr	Leu	Ala	Arg	Glu	Gly	Ile	Asn	Ala
				85					90					95	
Gln	Ile	Ser	Val	Pro	Glu	Ser	Lys	Val	Ser	Ala	Phe	Arg	Asp	Leu	Leu
			100				105						110		
Tyr	Gly	Phe	Asp	Pro	Ala	Leu	Asn	Gly	Leu	Arg	Leu	Asn	Ile	Ala	Leu
		115					120						125		
Asp	Asp	Asp	Gly	Lys	Ser	Phe	Trp	Val	Leu	Arg	Met	Lys	Val	Arg	Glu
		130				135					140				
Arg	Ile	Val	Ala	Asp	Gly	Ile	Asp	Asp	Pro	Ser	Phe	Asn	Ala	Ala	Asn
145					150				155						160
Val	Gly	Glu	Tyr	Leu	Lys	Ala	Ala	Glu	Val	Asn	Ala	Met	Leu	Asp	Asp
				165					170					175	
Pro	Asp	Ala	Val	Phe	Ile	Asp	Met	Arg	Asn	His	Tyr	Glu	Tyr	Glu	Val
			180				185						190		
Gly	His	Phe	Glu	Asn	Ala	Met	Glu	Ile	Pro	Ala	Asp	Thr	Phe	Arg	Glu
		195					200					205			
Gln	Leu	Pro	Lys	Ala	Val	Glu	Met	Met	Gln	Glu	His	Lys	Asp	Lys	Lys
	210					215						220			
Ile	Val	Met	Tyr	Cys	Thr	Gly	Gly	Ile	Arg	Cys	Glu	Lys	Ala	Ser	Ala
225					230					235					240
Trp	Met	Lys	His	Asn	Gly	Phe	Asn	Lys	Val	Trp	His	Ile	Glu	Gly	Gly
				245					250					255	
Ile	Ile	Glu	Tyr	Ala	Arg	Arg	Ala	Arg	Glu	Gln	Gly	Leu	Pro	Val	Arg
			260				265						270		
Phe	Ile	Gly	Lys	Asn	Phe	Val	Phe	Asp	Glu	Arg	Met	Gly	Glu	Arg	Ile
		275					280					285			
Ser	Glu	Asp	Val	Ile	Ala	His	Cys	His	Gln	Cys	Gly	Thr	Pro	Cys	Asp
	290					295					300				
Thr	His	Thr	Asn	Cys	Lys	Asn	Asp	Gly	Cys	His	Leu	Leu	Phe	Ile	Gln
305					310					315					320
Cys	Pro	Ala	Cys	Ala	Glu	Lys	Phe	Asn	Gly	Cys	Cys	Ser	Glu	Leu	Cys
			325						330					335	
Ser	Glu	Glu	Ser	Met	Leu	Pro	Glu	Glu	Glu	Gln	Arg	Arg	Arg	Arg	Ala
			340				345						350		
Gly	Arg	Glu	Asn	Gly	Asn	Lys	Ile	Phe	Asn	Lys	Ser	Arg	Gly	Arg	Leu
		355					360					365			
Asn	Thr	Lys	Leu	Gly	Ile	Pro	Asp	Pro	Glu						
	370					375									

<210> 6642

<211> 538

<212> PRT

<213> Enterobacter cloacae

<400> 6642

Val	Ser	Ile	Lys	Met	Asp	Arg	Ile	Asp	Ile	Ser	Thr	Gln	Arg	Gly	Lys
1				5					10					15	
Cys	Leu	Leu	Ile	Met	Lys	His	Lys	Pro	Gln	Met	Met	Lys	Met	Arg	Trp
			20					25					30		
Leu	Gly	Val	Ala	Val	Leu	Leu	Ser	Leu	Tyr	Thr	Ser	Ser	Ala	Leu	Ala
		35					40					45			
Phe	Asn	Ile	Asp	Asp	Val	Ala	Lys	Gln	Ala	Lys	Ser	Met	Ala	Gly	Lys
	50					55					60				
Ser	Tyr	Glu	Ala	Pro	Lys	Ser	Asn	Leu	Pro	Ser	Val	Phe	Arg	Asp	Met
65					70					75					80
Lys	Tyr	Ala	Asp	Tyr	Gln	Gln	Ile	Gln	Phe	Asn	His	Asp	Lys	Ala	Tyr
				85					90					95	
Trp	Asn	Asn	Ile	Lys	Thr	Pro	Phe	Lys	Leu	Glu	Phe	Tyr	His	Gln	Gly
			100					105					110		
Met	Tyr	Phe	Asp	Thr	Pro	Val	Ala	Ile	Asn	Glu	Val	Thr	Ala	Thr	Ala
		115					120					125			
Val	Arg	Lys	Ile	Lys	Tyr	Ser	Pro	Asp	Tyr	Phe	Asn	Phe	Gly	Asp	Val
	130					135					140				
Gln	His	Asp	Lys	Asp	Thr	Val	Lys	Asp	Leu	Gly	Phe	Ala	Gly	Phe	Lys
145					150					155					160
Val	Leu	Tyr	Pro	Ile	Asn	Ser	Lys	Asp	Lys	Asn	Asp	Glu	Ile	Val	Ser
				165					170					175	
Met	Leu	Gly	Ala	Ser	Tyr	Phe	Arg	Val	Ile	Gly	Ala	Gly	Gln	Val	Tyr
			180					185					190		
Gly	Leu	Ser	Ala	Arg	Gly	Leu	Ala	Ile	Asp	Thr	Ala	Leu	Pro	Ser	Gly
		195					200					205			
Glu	Glu	Phe	Pro	Arg	Phe	Arg	Glu	Phe	Trp	Ile	Glu	Arg	Pro	Lys	Pro
	210					215					220				
Thr	Asp	Lys	Arg	Leu	Thr	Ile	Tyr	Ala	Leu	Leu	Asp	Ser	Pro	Arg	Ala
225					230					235					240
Thr	Gly	Ala	Tyr	Arg	Phe	Val	Ile	Met	Pro	Gly	Arg	Asp	Thr	Val	Val
				245					250					255	
Asp	Val	Gln	Ser	Lys	Val	Tyr	Leu	Arg	Asp	Lys	Val	Gly	Lys	Leu	Gly
			260					265					270		
Val	Ala	Pro	Leu	Thr	Ser	Met	Phe	Leu	Phe	Gly	Pro	Asn	Gln	Pro	Ser
		275					280					285			
Pro	Ala	Thr	Asn	Phe	Arg	Pro	Glu	Leu	His	Asp	Ser	Asn	Gly	Leu	Ser
	290					295					300				
Ile	His	Ala	Gly	Asn	Gly	Glu	Trp	Ile	Trp	Arg	Pro	Leu	Asn	Asn	Pro
305				310						315					320
Lys	His	Leu	Ala	Val	Ser	Ser	Phe	Ala	Met	Glu	Asn	Pro	Gln	Gly	Phe
				325					330					335	
Gly	Leu	Leu	Gln	Arg	Gly	Arg	Gln	Phe	Ser	Arg	Phe	Glu	Asp	Leu	Asp
			340					345					350		
Asp	Arg	Tyr	Asp	Leu	Arg	Pro	Ser	Ala	Trp	Val	Thr	Pro	Lys	Gly	Asp
		355					360					365			
Trp	Gly	Lys	Gly	Lys	Val	Glu	Leu	Val	Glu	Ile	Pro	Thr	Asn	Asp	Glu
	370					375					380				
Thr	Asn	Asp	Asn	Ile	Val	Ala	Tyr	Trp	Thr	Pro	Asp	Gln	Leu	Pro	Glu
385				390						395					400
Ala	Gly	Lys	Glu	Met	Asn	Phe	Lys	Tyr	Ala	Ile	Thr	Phe	Ser	Arg	Asp
				405					410					415	
Glu	Asp	Lys	Leu	His	Ala	Pro	Asp	Asn	Ala	Tyr	Val	Met	Gln	Thr	Arg
			420					425					430		
Arg	Ser	Thr	Gly	Asp	Val	Lys	Gln	Ser	Asn	Leu	Ile	Arg	Gln	Pro	Asp
		435					440					445			
Gly	Thr	Leu	Ala	Phe	Ile	Val	Asp	Phe	Thr	Gly	Gln	Asp	Met	Lys	Lys

450	455	460
Leu Ala Pro Asp Thr	Ala Val Thr Ala Gln	Ala Ser Ile Gly Asp Asn
465	470	475
Gly Glu Ile Val	Glu Asn Ala Val Arg Tyr Asn	Pro Val Thr Lys Gly
	485	490
Trp Arg Leu Thr	Leu Arg Val Lys Val Lys Asp	Pro Lys Gln Thr Thr
	500	505
Glu Met Arg Ala Ala	Leu Val Ser Asn Asp Lys	Pro Leu Ser Glu Thr
	515	520
Trp Ser Tyr Gln Leu	Pro Ala Asn Glu	
530	535	

<210> 6643

<211> 207

<212> PRT

<213> Enterobacter cloacae

<400> 6643

Ser Ala Cys Leu	Ala Val Arg Gln Leu Thr	Leu Glu His Lys Met Lys
1	5	10
Lys Arg Leu Leu	Gly Ile Ala Leu Gly Ser	Leu Leu Phe Thr Thr Gly
	20	25
Ser Ala Leu Ala	Ala Asp Tyr Lys Ile Asp	Lys Glu Gly Gln His Ala
	35	40
Phe Val Asn Phe	Arg Ile Gln His Leu Gly Tyr	Ser Trp Leu Tyr Gly
	50	55
Thr Phe Asn Asp	Phe Asp Gly Thr Phe Thr	Phe Asp Glu Lys Asn Pro
65	70	75
Ala Ala Asp Lys	Val Asn Val Thr Ile Asn	Thr Asn Ser Val Asp Thr
	85	90
Asn His Ala Glu	Arg Asp Lys His Leu Arg Ser	Ala Glu Phe Leu Asn
	100	105
Val Gly Lys Phe	Pro Gln Ala Thr Phe Ala Ser	Thr Glu Val Lys Lys
	115	120
Asp Ser Asp Lys	Leu Ala Ile Thr Gly Asn	Leu Thr Leu Asn Gly Val
	130	135
Thr Lys Pro Val	Thr Leu Asp Ala Lys Leu Ile	Gly Gln Gly Asp Asp
145	150	155
Pro Trp Gly Gly	Lys Arg Ala Gly Phe Glu Ala	Ala Gly Lys Ile His
	165	170
Leu Lys Asp Phe	Asn Ile Thr Thr Asp Leu Gly	Pro Ala Ser Gln Asp
	180	185
Val Glu Leu Ile	Ile Ser Val Glu Gly Val	Gln Gln Lys Ser
	195	200
		205

<210> 6644

<211> 319

<212> PRT

<213> Enterobacter cloacae

<400> 6644

Pro Phe Arg Thr	Leu Glu His Arg Thr Asp	Met Thr Gln Leu Pro Lys
1	5	10
Phe Thr Ala Ala	Leu Leu His Pro Arg Tyr	Trp Leu Thr Trp Ser Gly
	20	25
Ile Gly Leu Leu	Trp Leu Ile Val Gln Leu Pro	Tyr Pro Val Ile Phe
	35	40
Arg Met Gly Lys	Gly Leu Gly Arg Ile Ala Gln	Gln Phe Met Lys Arg
	50	55
Arg Ala Arg Ile	Ala Tyr Arg Asn Leu Glu	Leu Cys Phe Pro Gln Met
65	70	75
		80

Ser Glu Ser Glu Arg His Asp Met Val Val Lys Asn Phe Glu Ser Val
 85 90 95
 Gly Met Gly Leu Met Glu Thr Gly Met Ala Trp Phe Trp Ser Asp Lys
 100 105 110
 Arg Met Ala Arg Trp Thr Glu Val Ala Gly Thr Gly Met Glu Pro Val
 115 120 125
 His Thr Leu Gln Ala Asn Gln Thr Gly Val Leu Leu Ile Gly Val His
 130 135 140
 Phe Leu Thr Leu Glu Ile Gly Ala Arg Met Phe Gly Met Gln Ala Pro
 145 150 155 160
 Gly Ile Gly Val Tyr Arg Pro Asn Asp Asn Pro Val Ile Asp Leu Ile
 165 170 175
 Gln Thr Asn Gly Arg Met Arg Ser Asn Lys Ser Met Ile Asp Arg Lys
 180 185 190
 Asp Leu Lys Gly Met Ile Arg Ala Leu Lys Ser Gly Glu Val Val Trp
 195 200 205
 Tyr Ala Pro Asp His Asp Tyr Gly Pro Gln Ser Ser Val Phe Val Pro
 210 215 220
 Phe Phe Ala Val Glu Asp Ala Ala Thr Thr Thr Gly Thr Trp Met Leu
 225 230 235 240
 Ala Arg Met Ser Lys Ala Ala Ile Val Pro Phe Val Pro Arg Arg Lys
 245 250 255
 Pro Asp Gly Ser Gly Tyr Gln Leu Ile Met Leu Glu Pro Glu Leu Ala
 260 265 270
 Pro Pro Leu Ile Asp Ala Glu Thr Thr Ala Arg Trp Met Asn Gly Val
 275 280 285
 Val Glu Lys Cys Ile Met Leu Ala Pro Glu Gln Tyr Met Trp Leu His
 290 295 300
 Arg Arg Phe Lys Thr Arg Pro Gln Gly Val Pro Ser Arg Tyr
 305 310 315

<210> 6645

<211> 430

<212> PRT

<213> Enterobacter cloacae

<400> 6645

Gln Ala Tyr Tyr Leu Thr Gly His Gly Ala Leu His Leu Ile Met Arg
 1 5 10 15
 Ile Val Met Ser Pro Thr Asp Ala Pro Ile Asn Trp Lys Arg Asn Leu
 20 25 30
 Thr Val Ala Trp Leu Gly Cys Phe Leu Thr Gly Ala Ala Phe Ser Leu
 35 40 45
 Val Met Pro Phe Leu Pro Leu Tyr Val Glu Gln Leu Gly Val Thr Gly
 50 55 60
 His Ser Ala Leu Asn Met Trp Ser Gly Leu Val Phe Ser Ile Thr Phe
 65 70 75 80
 Leu Phe Ser Ala Ile Ala Ser Pro Phe Trp Gly Gly Leu Ala Asp Arg
 85 90 95
 Lys Gly Arg Lys Ile Met Leu Leu Arg Ser Ala Leu Gly Met Ala Ile
 100 105 110
 Ile Met Leu Leu Met Gly Met Ala Gln Asn Val Trp Gln Phe Leu Ile
 115 120 125
 Leu Arg Ala Leu Leu Gly Leu Leu Gly Gly Phe Ile Pro Asn Ala Asn
 130 135 140
 Ala Leu Ile Ala Thr Gln Ile Pro Arg Gln Lys Ser Gly Trp Ala Leu
 145 150 155 160
 Gly Thr Leu Ser Thr Gly Gly Val Ser Gly Ala Leu Leu Gly Pro Leu
 165 170 175
 Ala Gly Gly Leu Leu Ala Asp His Tyr Gly Leu Arg Pro Val Phe Phe
 180 185 190

Ile Thr Ala Ser Val Leu Phe Leu Cys Phe Leu Val Thr Leu Ile Cys
 195 200 205
 Ile Arg Glu Asn Phe Thr Pro Val Ala Lys Lys Glu Met Leu His Ala
 210 215 220
 Arg Asp Val Leu Ala Ser Leu Lys Asn Pro Lys Leu Val Leu Ser Leu
 225 230 235 240
 Phe Val Thr Thr Met Ile Ile Gln Val Ala Thr Gly Ser Ile Ala Pro
 245 250 255
 Ile Leu Thr Leu Tyr Val Arg Asp Leu Ala Gly Asn Val Ser Asn Ile
 260 265 270
 Ala Phe Ile Ser Gly Leu Ile Ala Ser Val Pro Gly Val Ala Ala Leu
 275 280 285
 Leu Ser Ala Pro Arg Leu Gly Lys Leu Gly Asp Arg Ile Gly Pro Glu
 290 295 300
 Lys Ile Leu Ile Cys Ala Leu Ile Val Ser Val Leu Leu Leu Ile Pro
 305 310 315 320
 Met Ala Met Val Gln Ser Pro Trp Gln Leu Gly Val Leu Arg Phe Leu
 325 330 335
 Leu Gly Ala Ala Asp Gly Ala Leu Leu Pro Ala Val Gln Thr Leu Leu
 340 345 350
 Val Tyr Asn Ser Thr Asn Gln Ile Ala Gly Arg Ile Phe Ser Tyr Asn
 355 360 365
 Gln Ser Phe Arg Asp Leu Gly Asn Val Thr Gly Pro Leu Val Gly Ala
 370 375 380
 Gly Ile Ser Ala Ser Phe Gly Phe Arg Ala Val Phe Ile Val Thr Ala
 385 390 395 400
 Gly Val Val Leu Phe Asn Ala Val Tyr Ser Trp Leu Ser Leu Ser Arg
 405 410 415
 Ala Leu Arg Pro Gly Arg Ile Arg Gln His Arg Asp Gly
 420 425 430

<210> 6646

<211> 157

<212> PRT

<213> Enterobacter cloacae

<400> 6646

Gly Glu Lys Ser Glu Asn Ala Gln Ser Tyr Met Ser Thr Thr Pro Val
 1 5 10 15
 Gln Arg Glu Tyr Phe Leu Asp Ser Ile Arg Ala Trp Leu Met Leu Leu
 20 25 30
 Gly Ile Pro Phe His Ile Ser Leu Ile Tyr Ser Ser His Thr Trp His
 35 40 45
 Val Asn Ser Gln Met Pro Ser Trp Trp Leu Thr Leu Phe Asn Asp Phe
 50 55 60
 Ile His Ala Phe Arg Met Gln Val Phe Phe Val Ile Ser Gly Tyr Phe
 65 70 75 80
 Ser Tyr Met Leu Phe Leu Arg Tyr Pro Leu Lys Arg Trp Trp Lys Val
 85 90 95
 Arg Val Glu Arg Val Gly Ile Pro Met Leu Thr Ala Ile Pro Leu Leu
 100 105 110
 Thr Leu Pro Gln Phe Ile Met Leu Gln His Val Lys Gly Lys Ala Glu
 115 120 125
 Asn Trp Pro Asn Leu Ser Phe Tyr Glu Lys Tyr Asn Thr Leu Val Trp
 130 135 140
 Glu Leu Ile Ser His Leu Trp Phe Leu Leu Val Leu Val
 145 150 155

<210> 6647

<211> 103

<212> PRT

<213> Enterobacter cloacae

<400> 6647

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Arg Gln Glu Arg Gln Pro Tyr Gly Ala Tyr Pro Gln Asp Gly Ser Glu
1      5      10      15
Ala Phe Thr Phe Leu Arg Asn Ile Leu Pro Gly Val Gly Gly Leu Leu
20      25      30
Tyr Gly Ala Ala Cys Thr Tyr Asp Asn Thr Leu Asp Glu Asp Phe Ile
35      40      45
Ile Asp Thr Leu Pro Gly His Asp Asn Thr Leu Leu Val Thr Gly Leu
50      55      60
Ser Gly His Gly Phe Lys Phe Ala Ser Val Leu Gly Glu Ile Ala Ala
65      70      75      80
Gln Phe Ala Gln Gly Ile Ala Pro Ser Phe Asp Leu Lys Pro Phe Ala
85      90      95
Leu Ser Arg Phe Asp Arg
100

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<210> 6648

<211> 217

<212> PRT

<213> Enterobacter cloacae

<400> 6648

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Asn Thr Leu Phe Ile Phe Phe Ser Cys Ile Ile Tyr Leu Thr Arg Pro
1      5      10      15
Phe Leu Leu Leu Ser His Leu Arg Thr Glu Ile His Met Gln Trp Arg
20      25      30
Asn Ser Ser Arg Arg Tyr Gly Ile Ile Ser Met Cys Leu His Trp Leu
35      40      45
Phe Ala Ile Ala Val Tyr Ala Met Phe Gly Leu Gly Leu Trp Met Val
50      55      60
Thr Leu Ser Tyr Tyr Asp Gly Trp Tyr His Gln Ala Pro Glu Leu His
65      70      75      80
Lys Ser Ile Gly Val Leu Leu Met Met Gly Leu Val Phe Arg Val Ile
85      90      95
Trp Arg His Ile Ser Pro Pro Pro Pro Ala Pro Lys Ser His Gly Arg
100      105      110
Leu Thr Arg Ile Ser Ala Val Gly Ala His Ile Ala Leu Tyr Ala Leu
115      120      125
Leu Phe Ala Ile Leu Ile Ser Gly Tyr Leu Ile Ser Thr Ala Asp Gly
130      135      140
Lys Pro Ile Ser Val Phe Gly Leu Phe Asp Val Pro Ala Thr Leu Ala
145      150      155      160
Asp Ala Gly Ser Gln Ala Asp Thr Ala Gly Val Val His Leu Trp Leu
165      170      175
Ala Trp Ser Val Val Ile Leu Ser Val Leu His Gly Leu Ala Ala Leu
180      185      190
Lys His His Phe Ile Asp Lys Asp Asp Thr Leu Lys Arg Met Leu Gly
195      200      205
Arg Ser Ser Val Asp Ser Gly Ala
210      215

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<210> 6649

<211> 141

<212> PRT

<213> Enterobacter cloacae

<400> 6649

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Ser Ala Ile Leu Ser Leu Asn Thr Phe Thr Lys Asn Arg Glu Thr Pro
1      5      10      15

```

Met Thr Met Tyr Ala Thr Leu Glu Glu Ala Ile Asp Ala Ala Arg Glu
 20 25 30
 Glu Phe Leu Ala Asp Asn Pro Gly Ile Glu Glu Glu Asp Ala Asp Val
 35 40 45
 Gln Gln Leu Asn Ile Gln Lys Tyr Val Leu Gln Asp Gly Asp Ile Met
 50 55 60
 Trp Gln Ala Glu Phe Phe Ala Asp Glu Gly Glu Asp Gly Glu Cys Leu
 65 70 75 80
 Pro Ile Leu Ser Gly Glu Gly Ala Gln Ala Val Phe Asp Gly Asp Tyr
 85 90 95
 Asp Glu Ile Glu Leu Arg Gln Glu Trp Leu Glu Glu Asn Thr Leu His
 100 105 110
 Glu Trp Asp Glu Gly Glu Phe Gln Leu Glu Pro Pro Leu Asp Thr Glu
 115 120 125
 Glu Gly Gln Ala Ala Ala Asp Glu Trp Asp Glu Arg
 130 135 140

<210> 6650

<211> 91

<212> PRT

<213> Enterobacter cloacae

<400> 6650

Ser His His Pro Ala Cys Val Cys Gly Ser Ala Pro Asp Arg Tyr Arg
 1 5 10 15
 Tyr Pro Pro Ala Pro Ala Ala Glu Asn Thr Leu Pro Gly Ser Gly Thr
 20 25 30
 Ala Ser Ser Val Trp Tyr Ala Gly Gln Pro Trp Asn Gly Trp Arg Ser
 35 40 45
 Pro Thr Gln Thr Ala Thr Gly Ser Ala Arg Arg Arg Leu Ala Pro Ala
 50 55 60
 Arg Thr Gly Asn Ala Asp Pro Ala Arg Pro Tyr Gln Arg Pro Thr Pro
 65 70 75 80
 Gly Pro Ala Ala Ala Glu Ser Arg Gly Ala
 85 90

<210> 6651

<211> 433

<212> PRT

<213> Enterobacter cloacae

<400> 6651

Ser Asn Ser Lys Leu Ile Phe Tyr His Thr Met Ser Lys Thr His Leu
 1 5 10 15
 Thr Glu Gln Lys Phe Ser Asp Phe Ala Leu His Pro Lys Val Ile Glu
 20 25 30
 Ala Leu Glu Thr Lys Gly Phe His Asn Cys Thr Pro Ile Gln Ala Leu
 35 40 45
 Ala Leu Pro Leu Thr Leu Ala Gly Arg Asp Val Ala Gly Gln Ala Gln
 50 55 60
 Thr Gly Thr Gly Lys Thr Met Ala Phe Leu Thr Ser Thr Phe His Tyr
 65 70 75 80
 Leu Leu Ser His Pro Ala Ile Ala Asp Arg Lys Val Asn Gln Pro Arg
 85 90 95
 Ala Leu Ile Met Ala Pro Thr Arg Glu Leu Ala Val Gln Ile His Ala
 100 105 110
 Asp Ala Glu Pro Leu Ala Gln Ala Thr Gly Leu Lys Leu Gly Leu Ala
 115 120 125
 Tyr Gly Gly Asp Gly Tyr Asp Lys Gln Leu Lys Val Leu Glu Ser Gly
 130 135 140
 Val Asp Ile Leu Ile Gly Thr Thr Gly Arg Leu Ile Asp Tyr Ala Lys

145					150					155				160	
Gln	Asn	His	Ile	Asn	Leu	Gly	Ala	Ile	Gln	Val	Val	Val	Leu	Asp	Glu
				165					170					175	
Ala	Asp	Arg	Met	Tyr	Asp	Leu	Gly	Phe	Ile	Lys	Asp	Ile	Arg	Trp	Leu
			180					185					190		
Phe	Arg	Arg	Met	Pro	Ala	Ala	Asn	Gln	Arg	Leu	Asn	Met	Leu	Phe	Ser
		195					200					205			
Ala	Thr	Leu	Ser	Tyr	Arg	Val	Arg	Glu	Leu	Ala	Phe	Glu	Gln	Met	Asn
	210					215					220				
Asn	Ala	Glu	Tyr	Val	Glu	Val	Glu	Pro	Glu	Gln	Lys	Thr	Gly	His	Arg
225					230					235					240
Ile	Lys	Glu	Glu	Leu	Phe	Tyr	Pro	Ser	Asn	Glu	Glu	Lys	Met	Arg	Leu
				245					250					255	
Leu	Gln	Thr	Leu	Ile	Glu	Glu	Glu	Trp	Pro	Asp	Arg	Ala	Ile	Ile	Phe
			260					265					270		
Ala	Asn	Thr	Lys	His	Arg	Cys	Glu	Asp	Ile	Trp	Gly	His	Leu	Ala	Ala
		275					280					285			
Asp	Gly	His	Arg	Val	Gly	Leu	Leu	Thr	Gly	Asp	Val	Ala	Gln	Lys	Lys
	290				295					300					
Arg	Leu	Arg	Ile	Leu	Asp	Glu	Phe	Thr	Arg	Gly	Asp	Leu	Asp	Ile	Leu
305					310					315					320
Val	Ala	Thr	Asp	Val	Ala	Ala	Arg	Gly	Leu	His	Ile	Pro	Ala	Val	Thr
			325						330					335	
His	Val	Phe	Asn	Tyr	Asp	Leu	Pro	Asp	Asp	Cys	Glu	Asp	Tyr	Val	His
			340					345					350		
Arg	Ile	Gly	Arg	Thr	Gly	Arg	Ala	Gly	Ala	Ser	Gly	His	Ser	Ile	Ser
		355					360					365			
Leu	Ala	Cys	Glu	Glu	Tyr	Ala	Leu	Asn	Leu	Pro	Ala	Ile	Glu	Thr	Tyr
	370					375					380				
Ile	Gly	His	Ser	Ile	Pro	Gln	Ser	Lys	Tyr	Asn	Pro	Glu	Ala	Leu	Leu
385					390					395					400
Ser	Glu	Leu	Pro	Pro	Pro	Lys	Arg	Leu	Thr	Arg	Pro	Arg	Ser	Gly	Asn
				405					410					415	
Gly	Pro	Arg	Arg	Ser	Gly	Gly	Ala	Pro	Arg	Asn	Arg	Arg	Arg	Ser	Gly
			420					425					430		

<210> 6652

<211> 497

<212> PRT

<213> Enterobacter cloacae

<400> 6652

Glu	Asn	Met	Leu	Ser	Ser	Thr	Ser	Leu	Tyr	Ala	Ala	Ile	Asp	Leu	Gly
1				5					10					15	
Ser	Asn	Ser	Phe	His	Met	Leu	Val	Val	Arg	Glu	Val	Ala	Gly	Ser	Ile
			20					25					30		
Gln	Thr	Leu	Thr	Arg	Ile	Lys	Arg	Lys	Val	Arg	Leu	Ala	Gly	Leu	
	35					40						45			
Ser	Ser	Asp	Asn	His	Leu	Ser	Pro	Glu	Ala	Met	Glu	Arg	Gly	Trp	Gln
	50					55					60				
Cys	Leu	Arg	Leu	Phe	Ala	Glu	Arg	Leu	Gln	Asp	Ile	Pro	Leu	Ser	Gln
65				70					75					80	
Ile	Arg	Val	Val	Ala	Thr	Ala	Thr	Leu	Arg	Leu	Ala	Val	Asn	Ala	Gly
				85				90					95		
Asp	Phe	Ile	Ala	Arg	Ala	Gln	Glu	Ile	Leu	Gly	Cys	Pro	Val	Gln	Val
			100					105					110		
Ile	Ser	Gly	Glu	Glu	Glu	Ala	Arg	Leu	Ile	Tyr	Gln	Gly	Val	Ala	His
		115				120					125				
Thr	Thr	Gly	Gly	Asp	Asp	Arg	Arg	Leu	Val	Val	Asp	Ile	Gly	Gly	Ala

130	135	140
Ser Thr Glu Leu Val	Thr Gly Thr Gly Ala Gln	Ala Thr Ser Leu Phe
145	150	155
Ser Leu Ser Met Gly	Cys Val Thr Trp Leu Glu Arg Tyr Phe Thr Asp	160
165	170	175
Arg Asn Leu Ala Lys	Glu Asn Phe Asp Glu Ala Glu Asn Ala Ala Arg	180
180	185	190
Ala Val Leu Arg Pro Val	Met Asp Glu Leu Arg Tyr His Gly Trp Lys	195
195	200	205
Val Cys Val Gly Ala Ser	Gly Thr Val Gln Ala Leu Gln Glu Ile Met	210
210	215	220
Met Ala Gln Gly Met Asp	Glu Arg Ile Thr Leu Ala Lys Leu Gln Gln	225
225	230	235
Leu Lys Gln Arg Ala Ile	Gln Cys Gly Arg Leu Glu Glu Leu Glu Ile	240
245	250	255
Glu Gly Leu Thr Leu Glu	Arg Ala Leu Val Phe Pro Ser Gly Leu Ala	260
260	265	270
Ile Leu Ile Ala Ile Phe	Thr Glu Leu Asn Ile Gln Cys Met Thr Leu	275
275	280	285
Ala Gly Gly Ala Leu Arg	Glu Gly Leu Val Tyr Gly Met Leu His Gln	290
290	295	300
Ser Val Asp Gln Asp Ile	Arg Ser Arg Thr Leu Arg Asn Val Gln Arg	305
305	310	315
Arg Phe Ile Val Asp Thr	Asp Gln Ala Gln Arg Val Ser Gln Leu Ala	320
325	330	335
Ser Gln Phe Ala Asp Gln	Val Lys Lys Ser Trp Asp Ile Glu Pro Leu	340
340	345	350
Ser Arg Asp Leu Leu Leu	Ser Ala Cys Ala Leu His Glu Ile Gly Leu	355
355	360	365
Ser Val Glu Tyr Lys Gln	Ala Pro Leu His Ala Ala Trp Leu Val Arg	370
370	375	380
Asn Leu Asp Leu Pro Gly	Tyr Thr Pro Ala Gln Lys Lys Leu Leu Ala	385
385	390	395
Thr Leu Leu Leu Asn Gln	Thr Asn Ala Val Asp Leu Ser Ser Leu His	400
405	410	415
Gln Gln Asn Ala Val Pro	Pro Arg Val Ala Glu His Leu Cys Arg Leu	420
420	425	430
Leu Arg Leu Ala Ile Leu	Phe Ala Ser Arg Arg Arg Asp Asp Leu Leu	435
435	440	445
Pro Ala Ile Thr Leu Ala	Ala Asp Asp Glu Lys Leu Thr Leu Thr Leu	450
450	455	460
Pro Glu Asn Trp Leu Glu	Asp His Pro Leu Gly Ala Glu Leu Ile Glu	465
465	470	475
Gln Glu Tyr Gln Trp Gln	Ser Tyr Val His Trp Ala Leu Asp Val Lys	480
485	490	495

<210> 6653

<211> 93

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (93)

<400> 6653

Ser Thr Gln Gly Thr Ile Met Ala Lys Thr Ala Ala Ala Leu His Ile
1 5 10 15
Leu Val Lys Glu Glu Lys Leu Ala Gln Asp Leu Leu Glu Gln Ile Lys

```
<210> 6654
<211> 135
<212> PRT
<213> Enterobacter cloacae
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```
<210> 6655
<211> 677
<212> PRT
<213> Enterobacter cloacae
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<400> 6655															
Ser	Phe	Met	Arg	Leu	Asn	Pro	Gly	Gln	Gln	Gln	Ala	Val	Glu	Phe	Val
1				5					10					15	
Thr	Gly	Pro	Cys	Leu	Val	Leu	Ala	Gly	Ala	Gly	Ser	Gly	Lys	Thr	Arg
			20					25					30		
Val	Ile	Thr	Asn	Lys	Ile	Ala	His	Leu	Ile	Arg	Gly	Cys	Gly	Tyr	Gln
		35					40					45			
Ala	Arg	His	Ile	Ala	Ala	Val	Thr	Phe	Thr	Asn	Lys	Ala	Ala	Arg	Glu
	50					55					60				
Met	Lys	Glu	Arg	Val	Gly	Gln	Thr	Leu	Gly	Arg	Lys	Glu	Ala	Arg	Gly
65					70					75					80
Leu	Met	Ile	Ser	Thr	Phe	His	Thr	Leu	Gly	Leu	Asp	Ile	Ile	Lys	Arg
				85					90					95	
Glu	Tyr	Ala	Ala	Leu	Gly	Met	Lys	Ser	Asn	Phe	Ser	Leu	Phe	Asp	Asp
			100					105					110		
Thr	Asp	Gln	Val	Ala	Leu	Leu	Lys	Glu	Leu	Thr	Glu	Gly	Leu	Ile	Glu
		115					120					125			
Asp	Asp	Lys	Val	Leu	Leu	Gln	Gln	Leu	Ile	Ser	Thr	Ile	Ser	Asn	Trp
	130					135					140				
Lys	Asn	Asp	Leu	Met	Thr	Pro	Ala	Gln	Ala	Ala	Ala	Ser	Ala	Lys	Gly
145					150					155					160

Glu	Arg	Asp	Arg	Ile	Phe	Ala	His	Cys	Tyr	Gly	Leu	Tyr	Asp	Ala	His
				165					170					175	
Met	Lys	Ala	Cys	Asn	Val	Leu	Asp	Phe	Asp	Asp	Leu	Ile	Leu	Leu	Pro
			180					185					190		
Thr	Leu	Leu	Leu	Gln	Arg	Asn	Glu	Glu	Val	Arg	Glu	Arg	Trp	Gln	Asn
		195					200					205			
Lys	Ile	Arg	Tyr	Leu	Leu	Val	Asp	Glu	Tyr	Gln	Asp	Thr	Asn	Thr	Ser
	210					215					220				
Gln	Tyr	Glu	Leu	Val	Lys	Leu	Leu	Val	Gly	Gln	Arg	Ala	Arg	Phe	Thr
225				230						235					240
Val	Val	Gly	Asp	Asp	Asp	Gln	Ser	Ile	Tyr	Ser	Trp	Arg	Gly	Ala	Arg
			245						250					255	
Pro	Gln	Asn	Leu	Val	Leu	Leu	Ser	Lys	Asp	Phe	Pro	Ala	Leu	Gln	Val
		260						265					270		
Ile	Lys	Leu	Glu	Gln	Asn	Tyr	Arg	Ser	Ser	Gly	Arg	Ile	Leu	Lys	Ala
		275				280						285			
Ala	Asn	Ile	Leu	Ile	Ala	Asn	Asn	Pro	His	Val	Phe	Glu	Lys	Arg	Leu
	290					295					300				
Phe	Ser	Glu	Leu	Gly	Tyr	Gly	Thr	Glu	Leu	Lys	Val	Leu	Ser	Ala	Asn
305				310						315					320
Asn	Glu	Glu	His	Glu	Ala	Glu	Arg	Val	Thr	Gly	Glu	Leu	Ile	Ala	His
			325						330					335	
His	Phe	Val	Asn	Lys	Thr	Glu	Tyr	Lys	Asp	Tyr	Ala	Ile	Leu	Tyr	Arg
		340						345					350		
Gly	Asn	His	Gln	Ser	Arg	Val	Phe	Glu	Lys	Met	Leu	Met	Gln	Asn	Arg
		355				360					365				
Ile	Pro	Tyr	Lys	Ile	Ser	Gly	Gly	Thr	Ser	Phe	Phe	Ser	Arg	Pro	Glu
	370					375					380				
Ile	Lys	Asp	Leu	Leu	Ala	Tyr	Leu	Arg	Val	Leu	Thr	Asn	Pro	Asp	Asp
385				390						395					400
Asp	Ser	Ala	Phe	Leu	Arg	Ile	Val	Asn	Thr	Pro	Lys	Arg	Glu	Ile	Gly
			405					410					415		
Ser	Ala	Thr	Leu	Gln	Lys	Leu	Gly	Glu	Trp	Ala	Met	Thr	Arg	Asn	Lys
		420						425					430		
Ser	Leu	Phe	Thr	Ala	Ser	Phe	Asp	Met	Gly	Leu	Ser	Gln	Thr	Leu	Thr
		435				440						445			
Gly	Arg	Gly	Tyr	Glu	Ala	Leu	Thr	Arg	Phe	Thr	His	Trp	Leu	Gly	Glu
	450					455					460				
Val	Gln	Arg	Leu	Ala	Glu	Arg	Glu	Pro	Val	Ala	Ala	Val	Arg	Asp	Leu
465				470						475					480
Ile	His	Gly	Ile	Asp	Tyr	Glu	Ser	Trp	Leu	Tyr	Glu	Thr	Ser	Ala	Ser
			485					490						495	
Pro	Lys	Ala	Ala	Glu	Met	Arg	Met	Lys	Asn	Val	Asn	Gln	Leu	Phe	Ser
		500						505					510		
Trp	Met	Thr	Glu	Met	Leu	Glu	Gly	Ser	Glu	Ile	Asp	Glu	Pro	Met	Thr
		515					520					525			
Leu	Thr	Gln	Val	Val	Thr	Arg	Phe	Thr	Leu	Arg	Asp	Met	Met	Glu	Arg
	530				535						540				
Gly	Glu	Ser	Glu	Glu	Glu	Ala	Asp	Gln	Val	Gln	Leu	Met	Thr	Leu	His
545				550						555					560
Ala	Ser	Lys	Gly	Leu	Glu	Phe	Pro	Tyr	Val	Tyr	Leu	Val	Gly	Met	Glu
			565					570						575	
Glu	Gly	Leu	Leu	Pro	His	Gln	Ser	Ser	Ile	Asp	Glu	Asp	Asn	Val	Asp
			580					585					590		
Glu	Glu	Arg	Arg	Leu	Ala	Tyr	Val	Gly	Ile	Thr	Arg	Ala	Gln	Lys	Glu
		595				600					605				
Leu	Thr	Phe	Thr	Leu	Cys	Lys	Glu	Arg	Arg	Gln	Tyr	Gly	Glu	Leu	Val
	610				615						620				
Arg	Pro	Glu	Pro	Ser	Arg	Phe	Leu	Leu	Glu	Leu	Pro	Gln	Asp	Asp	Leu
625				630						635					640
Ile	Trp	Glu	Gln	Glu	Arg	Lys	Val	Ile	Thr	Ala	Glu	Glu	Arg	Met	His

645 650 655
 Lys Gly Gln Ala Asn Val Ala Asn Ile Arg Ala Met Leu Ala Lys Ala
 660 665 670
 Lys Glu Lys Gly
 675

<210> 6656
 <211> 166
 <212> PRT
 <213> Enterobacter cloacae

<400> 6656
 Glu Gln Ser Ile Val Asn Leu Leu Thr Ala Val Thr Glu Leu Ile Ser
 1 5 10 15
 Ile Phe Leu Phe Thr Thr Cys Phe Leu Phe Ile Ala Arg Lys Val Ala
 20 25 30
 Lys Arg Ile Gly Leu Val Asp Lys Pro Asn Phe Arg Lys Arg His Gln
 35 40 45
 Gly Leu Ile Pro Leu Val Gly Gly Ile Ser Val Tyr Ala Gly Ile Cys
 50 55 60
 Phe Thr Phe Gly Ile Ala Asp Tyr Tyr Ile Pro His Ala Ala Leu Tyr
 65 70 75 80
 Leu Ala Cys Ala Gly Val Leu Val Leu Val Gly Ala Leu Asp Asp Arg
 85 90 95
 Phe Asp Ile Ser Val Lys Phe Arg Ala Thr Val Gln Ala Ala Ile Gly
 100 105 110
 Ile Ile Met Met Val Val Gly Gly Leu Tyr Leu Arg Ser Leu Gly Tyr
 115 120 125
 Val Phe Gly Pro Trp Glu Leu Val Leu Gly Pro Phe Gly Phe Phe Leu
 130 135 140
 Thr Leu Phe Ala Val Trp Ala Ala Ile Val Phe Thr Asp Arg Gly Arg
 145 150 155 160
 Lys Glu Thr Arg Met Arg
 165

<210> 6657
 <211> 446
 <212> PRT
 <213> Enterobacter cloacae

<400> 6657
 Thr Gly Met Asp Asp Pro Ala Ile Pro Phe Thr Thr Leu Ser Ser Arg
 1 5 10 15
 Ile Thr Pro Ser Leu Arg Thr His Thr Ile Met Asn Leu Thr Glu Leu
 20 25 30
 Lys Asn Thr Pro Val Ser Glu Leu Ile Thr Leu Gly Glu Asn Met Gly
 35 40 45
 Leu Glu Asn Gln Ala Arg Met Arg Lys Gln Asp Ile Ile Phe Ala Ile
 50 55 60
 Leu Lys Gln His Ala Lys Ser Gly Glu Asp Ile Phe Gly Asp Gly Val
 65 70 75 80
 Leu Glu Ile Leu Gln Asp Gly Phe Gly Phe Leu Arg Ser Ala Asp Ser
 85 90 95
 Ser Tyr Leu Ala Gly Pro Asp Asp Ile Tyr Val Ser Pro Ser Gln Ile
 100 105 110
 Arg Arg Phe Asn Leu Arg Thr Gly Asp Thr Ile Ser Gly Lys Ile Arg
 115 120 125
 Pro Pro Lys Glu Gly Glu Arg Tyr Phe Ala Leu Leu Lys Val Asn Glu
 130 135 140
 Val Asn Tyr Asp Lys Pro Glu Asn Ser Arg Asn Lys Ile Leu Phe Glu
 145 150 155 160

Asn	Leu	Thr	Pro	Leu	His	Ala	Asn	Ser	Arg	Leu	Arg	Met	Glu	Arg	Gly
				165					170					175	
Asn	Gly	Ser	Thr	Glu	Asp	Leu	Thr	Ala	Arg	Val	Leu	Asp	Leu	Ala	Ser
			180					185					190		
Pro	Ile	Gly	Arg	Gly	Gln	Arg	Gly	Leu	Ile	Val	Ala	Pro	Pro	Lys	Ala
		195					200					205			
Gly	Lys	Thr	Met	Leu	Leu	Gln	Asn	Ile	Ala	Gln	Ser	Ile	Ala	Tyr	Asn
	210					215					220				
His	Pro	Asp	Cys	Val	Leu	Met	Val	Leu	Leu	Ile	Asp	Glu	Arg	Pro	Glu
225					230					235					240
Glu	Val	Thr	Glu	Met	Gln	Arg	Leu	Val	Lys	Gly	Glu	Val	Val	Ala	Ser
			245						250					255	
Thr	Phe	Asp	Glu	Pro	Ala	Ser	Arg	His	Val	Gln	Val	Ala	Glu	Met	Val
		260						265					270		
Ile	Glu	Lys	Ala	Lys	Arg	Leu	Val	Glu	His	Lys	Lys	Asp	Val	Ile	Ile
		275					280					285			
Leu	Leu	Asp	Ser	Ile	Thr	Arg	Leu	Ala	Arg	Ala	Tyr	Asn	Thr	Val	Val
	290					295					300				
Pro	Ala	Ser	Gly	Lys	Val	Leu	Thr	Gly	Gly	Val	Asp	Ala	Asn	Ala	Leu
305					310					315					320
His	Arg	Pro	Lys	Arg	Phe	Phe	Gly	Ala	Ala	Arg	Asn	Val	Glu	Glu	Gly
			325						330					335	
Gly	Ser	Leu	Thr	Ile	Ile	Ala	Thr	Ala	Leu	Ile	Asp	Thr	Gly	Ser	Lys
			340					345					350		
Met	Asp	Glu	Val	Ile	Tyr	Glu	Glu	Phe	Lys	Gly	Thr	Gly	Asn	Met	Glu
		355					360					365			
Leu	His	Leu	Ser	Arg	Lys	Ile	Ala	Glu	Lys	Arg	Val	Phe	Pro	Ala	Ile
	370					375					380				
Asp	Tyr	Asn	Arg	Ser	Gly	Thr	Arg	Lys	Glu	Glu	Leu	Leu	Thr	Thr	Gln
385					390					395					400
Glu	Glu	Leu	Gln	Lys	Met	Trp	Ile	Leu	Arg	Lys	Ile	Ile	His	Pro	Met
			405						410					415	
Gly	Glu	Ile	Asp	Ala	Met	Glu	Phe	Leu	Ile	Asn	Lys	Leu	Ala	Met	Thr
			420					425					430		
Lys	Thr	Asn	Asp	Asp	Phe	Phe	Asp	Met	Met	Lys	Arg	Ser			
		435					440					445			

<210> 6658

<211> 175

<212> PRT

<213> Enterobacter cloacae

<400> 6658

Val	Lys	Val	Val	Ile	Met	Gly	Gln	Asp	Pro	Tyr	His	Gly	Pro	Gly	Gln
1				5					10					15	
Ala	His	Gly	Leu	Ala	Phe	Ser	Val	Arg	Pro	Gly	Val	Ala	Ile	Pro	Pro
			20					25					30		
Phe	Leu	Leu	Asn	Met	Tyr	Lys	Glu	Leu	Glu	Gly	Thr	Ile	Pro	Gly	Phe
	35						40					45			
Thr	Arg	Pro	Asn	His	Gly	Tyr	Leu	Glu	Ser	Trp	Ala	Arg	Gln	Gly	Val
	50					55					60				
Leu	Leu	Leu	Asn	Thr	Val	Leu	Thr	Val	Arg	Ala	Gly	Gln	Ala	His	Ser
65				70						75					80
His	Ala	Ser	Leu	Gly	Trp	Glu	Thr	Phe	Thr	Asp	Lys	Val	Ile	Ser	Leu
				85					90					95	
Ile	Asn	Glu	His	Arg	Glu	Gly	Val	Val	Phe	Leu	Leu	Trp	Gly	Ser	His
			100					105					110		
Ala	Gln	Lys	Lys	Gly	Ala	Ile	Ile	Asp	Arg	Gln	Arg	His	His	Val	Leu
		115					120					125			
Lys	Ala	Pro	His	Pro	Ser	Pro	Leu	Ser	Ala	His	Arg	Gly	Phe	Phe	Gly
	130					135						140			

Ser Asn His Phe Val Leu Thr Asn Glu Trp Leu Glu Lys Arg Gly Glu
 145 150 155 160
 Lys Pro Ile Asp Trp Met Pro Val Leu Pro Ala Glu Ser Glu
 165 170 175

<210> 6659

<211> 295

<212> PRT

<213> Enterobacter cloacae

<400> 6659

Lys Ile Ser Val Trp Arg Gly Arg Leu Thr Thr Pro Phe Pro Phe Gly
 1 5 10 15
 Phe Phe Ser Arg Leu Leu Pro Phe Phe Asp Lys Ile Thr Thr Gln Ile
 20 25 30
 Thr Met Leu Ile Ile Asp Leu Asp Asn Lys Ile His Arg Lys Asn Met
 35 40 45
 Met Lys His Ile Ser Gly Lys Ala Ala Leu Leu Ala Leu Ser Met Ile
 50 55 60
 Ser Ala Thr Ala Tyr Ala Ser His Trp Ser Tyr Gln Gly Glu Gly Ala
 65 70 75 80
 Pro Glu His Trp Gly Glu Leu Asp Glu Ala Tyr Lys Thr Cys Lys Ser
 85 90 95
 Gly Met Tyr Gln Ser Pro Val Asn Ile Asp Asn Thr Val Lys Ala His
 100 105 110
 Ile Ser Pro Leu Glu Thr His Tyr Ile Asp Gly Pro Val Ile Leu Thr
 115 120 125
 Asn Asn Gly His Thr Ile Gln Ala Ser Glu Asn Ala Asp Thr Arg Asp
 130 135 140
 Ser Ile Thr Leu Asp Lys Gln Arg Trp Thr Leu Gln Gln Phe His Phe
 145 150 155 160
 His Ala Pro Ser Glu Asn Thr Val His Gly Lys Lys Tyr Ala Met Glu
 165 170 175
 Met His Leu Val His Lys Asn Ala Asp Gly Glu Leu Thr Val Val Ala
 180 185 190
 Val Met Phe Asp Gln Gly Ala Ala Asn Thr Glu Leu Asp Lys Leu Trp
 195 200 205
 Gly Val Met Pro Gly Gln Val Asp Gln Asn Val Thr Ile Lys Pro Thr
 210 215 220
 Leu Asp Met Asn Lys Leu Leu Pro Ala Asp Lys Thr Tyr Trp Arg Phe
 225 230 235 240
 Ser Gly Ser Leu Thr Thr Pro Pro Cys Ser Glu Gly Val Thr Trp Leu
 245 250 255
 Val Leu Lys His Pro Leu Thr Val Ser Ala Glu Gln Leu Gln Lys Phe
 260 265 270
 Thr His Thr Leu His His Glu Asn Ser Arg Pro Val Gln Pro Leu His
 275 280 285
 Gly Arg Leu Val Val Glu
 290 295

<210> 6660

<211> 383

<212> PRT

<213> Enterobacter cloacae

<400> 6660

Gly Thr Val Met Thr Asn His Phe Arg Cys Leu Pro Leu Ser Gly Phe
 1 5 10 15
 Ile Val Cys Ala Ala Leu Leu Thr Gly Cys Asp Gly Gln Glu Asn Pro
 20 25 30
 Gln Gln His Ala Gln Ala Pro Gln Val Ser Val His Ile Val Lys Ser

```
<210> 6661
<211> 425
<212> PRT
<213> Enterobacter cloacae
```

<220>
<221> UNSURE
<222> (135)

<400> 6661
Asp Lys Ile Val Asp Val His Ser Ser Ala Asp Arg Asp Leu Lys His
1 5 10 15
Val Leu Leu Ala Asp Glu Thr Val Cys Ile Gly Pro Ala Pro Ser Val

```
<210> 6662
<211> 97
<212> PRT
<213> Enterobacter cloacae
```

<400> 6662
Ala Pro Ser Cys Thr Ile Pro Ala Phe Phe Ile His Lys Gly Gln Lys
1 5 10 15
Met Asp Lys Arg Phe Val Gln Ala His Lys Glu Ala Arg Trp Ala Leu

```
<210> 6663
<211> 300
<212> PRT
<213> Enterobacter cloacae
```

```
<210> 6664
<211> 104
<212> PRT
<213> Enterobacter cloacae
```

<400> 6664

Arg	Ala	Asp	Arg	Thr	Met	Phe	Glu	Gln	Arg	Val	Asn	Ser	Asp	Val	Leu
1				5					10					15	
Thr	Val	Ser	Thr	Val	Asn	Ser	Gln	Asp	Gln	Val	Thr	Gln	Lys	Pro	Leu
			20					25					30		
Arg	Asp	Ser	Val	Lys	Gln	Ala	Leu	Lys	Asn	Tyr	Phe	Ala	Gln	Leu	Asn
		35					40					45			
Gly	Gln	Asp	Val	Asn	Asp	Leu	Tyr	Glu	Leu	Val	Leu	Ala	Glu	Val	Glu
		50				55					60				
Gln	Pro	Leu	Leu	Asp	Met	Val	Met	Gln	Tyr	Thr	Arg	Gly	Asn	Gln	Thr
65					70					75					80
Arg	Ala	Ala	Leu	Met	Met	Gly	Ile	Asn	Arg	Gly	Thr	Leu	Arg	Lys	Lys
				85					90					95	
Leu	Lys	Lys	Tyr	Gly	Met	Asn									
				100											

<210> 6665

<211> 751

<212> PRT

<213> Enterobacter cloacae

<400> 6665

Thr	Gly	Gln	Leu	Leu	Arg	Ala	Gly	Leu	Thr	Ala	Ser	Ile	Leu	Tyr	Lys
1				5					10					15	
Thr	Leu	Leu	Thr	Pro	Asn	Lys	Asn	Arg	Gly	Leu	Asn	His	Phe	Ser	Ser
			20					25					30		
Phe	Pro	Asp	Asp	Asp	Asn	Val	Cys	Pro	Leu	Ser	Asn	Arg	Ser	Cys	Leu
		35					40					45			
Thr	Ser	His	Thr	Ser	Glu	Gln	Thr	Met	Leu	Val	Ser	Gln	Tyr	Asn	Gln
		50				55					60				
Ile	Leu	Val	Val	Ile	Ser	Phe	Val	Val	Ala	Ile	Leu	Ala	Ala	Tyr	Thr
65					70				75						80
Ala	Leu	Asn	Met	Ala	Ala	Arg	Val	Ala	Gly	Ser	Gln	Gly	Val	Ala	Ala
				85					90					95	
Arg	Val	Trp	Leu	Ala	Gly	Gly	Gly	Val	Ser	Met	Gly	Ile	Gly	Val	Trp
			100					105						110	
Ala	Met	His	Phe	Ile	Gly	Met	Leu	Ala	Met	Asp	Leu	Ser	Met	Ser	Met
		115					120				125				
Ser	Tyr	Asn	Ala	Ala	Leu	Thr	Val	Leu	Ser	Met	Val	Ile	Ala	Ile	Ser
		130				135					140				
Ser	Ser	Met	Phe	Ala	Leu	Trp	Leu	Val	Ser	Gly	Glu	Gln	Leu	Arg	Leu
145					150				155						160
Arg	Arg	Leu	Leu	Pro	Gly	Ala	Val	Val	Met	Gly	Thr	Gly	Ile	Val	Ala
				165					170					175	
Met	His	Tyr	Thr	Gly	Met	Ala	Ala	Leu	Glu	Val	Thr	Pro	Gly	Ile	Val
			180					185					190		
Trp	Asp	Lys	Thr	Trp	Val	Ala	Ile	Ser	Val	Val	Ile	Ala	Leu	Ala	Ala
		195					200					205			
Ser	Leu	Ala	Ala	Leu	Trp	Leu	Thr	Phe	Arg	Leu	Arg	Gln	Glu	Ala	Ala
		210				215					220				
Arg	Met	Ala	Leu	Met	Arg	Leu	Gly	Ala	Ala	Ile	Thr	Met	Gly	Ile	Ala
225					230					235					240
Ile	Ala	Gly	Met	His	Tyr	Ala	Gly	Met	Glu	Ala	Ala	Gln	Phe	Pro	Met
				245					250					255	
Ser	Thr	Met	Val	His	His	His	Gly	Ile	Asn	Gly	Ser	Trp	Leu	Ala	Ile
			260					265					270		
Leu	Val	Ser	Val	Val	Ala	Leu	Ala	Ile	Leu	Gly	Ile	Thr	Leu	Leu	Val
		275					280					285			
Ser	Met	Phe	Asp	Ala	Arg	Leu	Gln	Ala	Arg	Thr	Ser	Leu	Leu	Ala	Ser
		290				295					300				

Ser Leu Ala Glu Ala Asn Arg Glu Leu Ala Gln Leu Ala Leu His Asp
 305 310 315 320
 Thr Leu Thr Arg Leu Pro Asn Arg Ile Leu Leu Glu Asp Arg Leu Asp
 325 330 335
 Gln Ala Ile Ser Lys Ala Asp Arg Glu Gly Ser Pro Phe Ala Leu Met
 340 345 350
 Phe Met Asp Leu Asp Gly Phe Lys Thr Val Asn Asp Ala Tyr Gly His
 355 360 365
 Asp Val Gly Asp Lys Leu Leu Val Ala Val Thr Gln Arg Leu Leu Leu
 370 375 380
 Gln Leu Lys Gly Gln Tyr Thr Leu Ala Arg Ile Gly Gly Asp Glu Phe
 385 390 395 400
 Val Leu Leu Ala Glu Thr Ala Thr Pro Asp Ala Ala Ser Leu Ala
 405 410 415
 Asn Ser Leu Val Arg Val Ile Asp Ser Pro Phe His Leu Asp Pro Tyr
 420 425 430
 Glu Leu Met Val Thr Leu Ser Ile Gly Ile Ala Leu Tyr Pro His Asp
 435 440 445
 Gly Lys Thr Asp Arg Glu Leu Met Phe Asn Ala Asp Ala Ala Met Tyr
 450 455 460
 His Thr Lys His Met Gly Arg Asn Gly Tyr His Phe Phe Gln Pro Ser
 465 470 475 480
 Met Asn Thr Leu Ala Gln Thr His Leu Gln Leu Met Asn Asp Leu Trp
 485 490 495
 Gln Ala Ile Asp Arg Asp Glu Leu Arg Leu Leu Tyr Gln Pro Lys Phe
 500 505 510
 His Ala Pro Ala Gly Pro Val Ile Gly Phe Glu Ala Leu Leu Arg Trp
 515 520 525
 Gln His Pro Lys Gln Gly Leu Leu Ser Pro Asp Leu Phe Leu Pro Leu
 530 535 540
 Ala Glu Lys Thr Gly Leu Ile Ile Pro Ile Gly Asn Trp Val Ile Asp
 545 550 555 560
 Glu Ala Cys Arg Gln Leu Arg Glu Trp His Leu Gln Gly His Thr Asp
 565 570 575
 Trp Ser Met Ala Val Asn Leu Ser Thr Leu Gln Phe Glu Gln Pro Ser
 580 585 590
 Leu Val Lys Thr Val Leu Asp Cys Leu Thr Arg His Ser Val Pro Pro
 595 600 605
 Gly Met Leu Ile Leu Glu Val Thr Glu Thr Thr Ala Met Ser Asn Pro
 610 615 620
 Asp Glu Ser Val Arg Val Leu Thr Ala Leu Thr Asp Ala Gly Val Lys
 625 630 635 640
 Ala Ser Ile Asp Asp Phe Gly Thr Gly Tyr Ser Ser Leu Leu Tyr Leu
 645 650 655
 Lys Arg Leu Pro Ala Cys Glu Leu Lys Ile Asp Arg Ala Phe Val Lys
 660 665 670
 Glu Leu Ser Gly Glu Ser Glu Asp Ala Thr Ile Val Ser Ala Ile Val
 675 680 685
 Ala Leu Ala Lys Thr Leu Asn Leu Lys Val Val Ala Glu Gly Val Glu
 690 695 700
 Thr Ala Ala Gln Gln Thr Phe Leu Thr Glu Leu Gly Cys Asn Thr Leu
 705 710 715 720
 Gln Gly Tyr Leu Leu Gly Lys Pro Ile Thr Ala Gln Ala Ile Met Glu
 725 730 735
 Gln Cys Gln His Gly Glu Met Ser Pro Pro Arg Ala Gln Ser
 740 745 750

<210> 6666

<211> 496

<212> PRT

<213> Enterobacter cloacae

<400> 6666

Asn	Ser	Ser	Ile	Ala	Ile	Phe	His	Trp	Arg	Thr	Met	Met	Gln	Leu	Glu
1				5					10					15	
Val	Ile	Leu	Pro	Leu	Ile	Ala	Tyr	Leu	Cys	Leu	Val	Phe	Gly	Leu	Ser
			20					25					30		
Val	Tyr	Ala	Met	Arg	Lys	Arg	Ser	Thr	Gly	Thr	Phe	Leu	Asn	Glu	Tyr
		35					40					45			
Phe	Leu	Gly	Ser	Arg	Ser	Met	Gly	Gly	Val	Val	Leu	Ala	Met	Thr	Leu
	50					55					60				
Thr	Ala	Thr	Tyr	Ile	Ser	Ala	Ser	Ser	Phe	Ile	Gly	Gly	Pro	Gly	Ala
65				70					75						80
Ala	Tyr	Lys	Tyr	Gly	Leu	Gly	Trp	Val	Leu	Leu	Ala	Met	Ile	Gln	Leu
				85				90						95	
Pro	Ala	Ile	Trp	Leu	Ser	Leu	Gly	Ile	Leu	Gly	Lys	Lys	Phe	Ala	Ile
			100					105					110		
Leu	Ala	Arg	Arg	Tyr	Asn	Ala	Val	Thr	Leu	Asn	Asp	Met	Leu	Phe	Ala
		115					120					125			
Arg	Tyr	Gln	Ser	Arg	Leu	Leu	Val	Trp	Leu	Ala	Ser	Leu	Ser	Leu	Leu
	130					135					140				
Val	Ala	Phe	Ile	Gly	Ala	Met	Thr	Val	Gln	Phe	Ile	Gly	Gly	Ala	Arg
145				150					155						160
Leu	Leu	Glu	Thr	Ala	Ala	Gly	Ile	Pro	Tyr	Glu	Thr	Gly	Leu	Val	Ile
				165				170						175	
Phe	Gly	Val	Ser	Ile	Ala	Leu	Tyr	Thr	Ala	Phe	Gly	Gly	Phe	Arg	Ala
			180				185						190		
Ser	Val	Leu	Asn	Asp	Thr	Met	Gln	Gly	Met	Val	Met	Leu	Ile	Gly	Thr
		195				200					205				
Leu	Val	Leu	Leu	Val	Gly	Ile	Val	His	Ala	Ala	Gly	Gly	Leu	Ser	His
	210				215						220				
Ala	Val	Glu	Thr	Leu	Glu	Ala	Ile	Asp	Pro	Lys	Leu	Val	Ser	Pro	Gln
225				230					235						240
Gly	Ala	Asp	Asp	Ile	Leu	Ser	Pro	Thr	Phe	Met	Thr	Ser	Phe	Trp	Val
			245					250						255	
Leu	Val	Cys	Phe	Gly	Val	Ile	Gly	Leu	Pro	His	Thr	Ala	Val	Arg	Cys
			260				265						270		
Ile	Ser	Tyr	Lys	Asp	Ser	Lys	Ala	Val	His	Arg	Gly	Ile	Ile	Ile	Gly
	275					280					285				
Thr	Ile	Val	Val	Ala	Ile	Leu	Met	Phe	Gly	Met	His	Leu	Ala	Gly	Ala
	290				295						300				
Leu	Gly	Arg	Ala	Val	Ile	Pro	Asp	Leu	Thr	Val	Pro	Asp	Leu	Val	Ile
305				310					315						320
Pro	Thr	Leu	Met	Val	Lys	Val	Leu	Pro	Pro	Phe	Ala	Ala	Gly	Ile	Phe
			325					330						335	
Leu	Ala	Ala	Pro	Met	Ala	Ala	Ile	Met	Ser	Thr	Ile	Asn	Ala	Gln	Leu
			340					345					350		
Leu	Gln	Ser	Ser	Ala	Thr	Ile	Ile	Lys	Asp	Leu	Tyr	Leu	Asn	Leu	Arg
		355					360					365			
Pro	Glu	Gln	Val	Glu	Asn	Glu	Arg	Arg	Leu	Lys	Arg	Met	Ser	Ala	Val
	370					375				380					
Ile	Thr	Leu	Val	Leu	Gly	Ala	Leu	Leu	Leu	Leu	Ala	Ala	Trp	Arg	Pro
385				390					395						400
Pro	Glu	Met	Ile	Ile	Trp	Leu	Asn	Leu	Leu	Ala	Phe	Gly	Gly	Leu	Glu
			405					410						415	
Ala	Val	Phe	Leu	Trp	Pro	Leu	Val	Leu	Gly	Leu	Tyr	Trp	Glu	Arg	Ala
			420					425					430		
Asn	Ala	Ala	Gly	Ala	Leu	Ser	Gly	Met	Ile	Val	Gly	Gly	Val	Leu	Tyr
		435					440					445			
Ala	Val	Leu	Ala	Thr	Phe	Lys	Ile	Gln	Tyr	Leu	Gly	Phe	His	Pro	Ile
	450					455					460				
Val	Pro	Ser	Leu	Leu	Leu	Ser	Leu	Leu	Ala	Phe	Val	Val	Gly	Asn	Arg


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<210> 6667
<211> 323
<212> PRT
<213> Enterobacter cloacae
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[illegible]

<220>
<221> UNSURE
<222> (78)

<400> 6668

Tyr Arg Arg Asp Ser Ser Gln Leu Arg Asn Asn Asp Met Ala Asn Phe
 1 5 10 15
 Phe Ile Gln Arg Pro Val Phe Ala Trp Val Leu Ala Ile Ile Leu Met
 20 25 30
 Ile Ala Gly Gly Leu Ala Ile Leu Lys Leu Pro Val Ala Gln Tyr Pro
 35 40 45
 Thr Ile Ala Pro Pro Ala Val Ala Val Thr Ala Thr Tyr Pro Gly Ala
 50 55 60
 Asp Ala Gln Thr Val Gln Asp Thr Val Thr Gln Val Ile Xaa
 65 70 75

<210> 6669

<211> 218

<212> PRT

<213> Enterobacter cloacae

<400> 6669

Gln Val Met Ala Arg Lys Lys Lys Glu Glu Ala Gln Lys Thr Arg Gln
 1 5 10 15
 Gln Leu Ile Glu Ala Ala Ile Arg Leu Phe Ala Thr Arg Gly Val Ala
 20 25 30
 Ser Thr Thr Leu Thr Asp Ile Ala Asp Ala Ala Gln Leu Thr Arg Gly
 35 40 45
 Ala Val Tyr Trp His Phe Ser Ser Lys Ala Glu Ile Phe Asn Ala Ile
 50 55 60
 Trp Glu Gln Gln Leu Pro Leu Arg Glu Ile Ile Arg Asp Arg Leu Met
 65 70 75 80
 Leu Ser Glu Asn Asp Asp Pro Leu Leu Met Leu Arg Glu Gln Phe Ile
 85 90 95
 Val Ala Leu Gln Tyr Ile Ala Ser Glu Pro Arg Gln Tyr Ala Leu Leu
 100 105 110
 Gln Ile Leu Tyr His Lys Cys Glu Phe His Asp Asp Val Ile Ser Glu
 115 120 125
 Cys Glu Ile Arg Lys Arg Ile Gly Leu Asn Asp Asp Tyr Leu Arg Lys
 130 135 140
 Thr Leu Lys Arg Cys Ile Ala His Asn Ile Ile Ser Ser Gln Thr Asn
 145 150 155 160
 Ile Glu Leu Ala Leu Ile Val Phe His Ala Phe Phe Ser Gly Val Ile
 165 170 175
 Lys Asn Trp Leu Met Asp Asn Thr Ser Phe Asn Leu Tyr Lys Gln Ala
 180 185 190
 Pro Ala Leu Val Asp Asn Ile Leu Ala Thr Leu Asn Ile Thr Arg Val
 195 200 205
 Ala Pro Val Val Tyr Asp Thr Ala Leu
 210 215

<210> 6670

<211> 306

<212> PRT

<213> Enterobacter cloacae

<400> 6670

Thr Met Val Ala Gln Tyr Tyr Thr Asp Pro Glu Ile Gln Gln Leu Ala
 1 5 10 15
 Glu Glu Thr Gly Gly Cys Ile Ser Asp Ser Leu Glu Met Ala Arg Phe
 20 25 30
 Gly Ala Lys His Pro Ala Ser Thr Leu Leu Val Ala Gly Val Arg Phe
 35 40 45
 Met Gly Glu Thr Ala Lys Ile Leu Ser Pro Glu Lys Thr Ile Leu Met

50	55	60
Pro Thr Leu Asn Ala	Asp Cys Ser Leu Asp	Leu Gly Cys Pro Ile Asp
65	70	75
Glu Phe Thr Ala Phe	Cys Asp Ala His Pro	Asp Arg Thr Val Val Val
	85	90
Tyr Ala Asn Thr Ser	Ala Ala Val Lys Ala	Arg Ala Asp Trp Val Met
	100	105
Thr Ser Ser Ile Ala	Val Glu Leu Ile Glu	His Leu Asp Ser Leu Gly
	115	120
Glu Lys Ile Ile Trp	Ala Pro Asp Arg His	Leu Gly Asn Tyr Val Gln
	130	135
Lys Gln Thr Gly Ala	Asp Val Leu Cys Trp	Gln Gly Ala Cys Ile Val
145	150	155
His Asp Glu Phe Lys	Thr Gln Ala Leu Thr	Arg Met Lys Gly Leu Tyr
	165	170
Pro Asp Ala Ala Ile	Leu Val His Pro Glu	Ser Pro Gln Ser Ile Val
	180	185
Asp Met Ala Asp Ala	Val Gly Ser Thr Ser	Gln Leu Ile His Ala Ala
	195	200
Lys Thr Leu Pro Asn	Lys Gln Leu Ile Val	Ala Thr Asp Arg Gly Ile
	210	215
Phe Tyr Lys Met Gln	Gln Ala Val Pro Glu	Lys Glu Leu Leu Glu Ala
225	230	235
Pro Thr Ala Gly Glu	Gly Ala Ser Cys Arg	Ser Cys Ala His Cys Pro
	245	250
Trp Met Ala Met Asn	Gly Leu Lys Ala Ile	Ser Glu Ala Leu Glu Asn
	260	265
Gly Gly Ala Ala His	Glu Ile His Val Asp	Ala Ala Leu Arg Glu Gly
	275	280
Ala Leu Ile Pro Leu	Asn Arg Met Leu Asp	Phe Ala Ala Thr Leu Arg
	290	295
Thr		300
305		

<210> 6671

<211> 263

<212> PRT

<213> Enterobacter cloacae

<400> 6671

Phe His Leu Thr	Val Cys Trp Ile	Leu Arg Leu His	Tyr Val Leu Asn
1	5	10	15
Leu Leu Arg Pro	Gly Glu Lys Met	Asp Phe Phe Ser	Thr Gln Asn Ile
	20	25	30
Leu Val His Ile	Pro Ile Gly Ala	Gly Gly Tyr Asp	Leu Ser Trp Ile
	35	40	45
Glu Ala Val Gly	Thr Leu Ala Gly	Leu Leu Cys Ile	Trp Leu Ala Ser
	50	55	60
Leu Glu Lys Ile	Ser Asn Tyr Ala	Phe Gly Leu Ile	Asn Val Thr Leu
65	70	75	80
Phe Ala Ile Ile	Phe Phe Gln Ile	Gln Leu Tyr Ala	Ser Leu Leu Leu
	85	90	95
Gln Leu Phe Phe	Phe Ala Ala Asn	Ile Tyr Gly Trp	Tyr Ala Trp Ser
	100	105	110
Arg Gln Asn Ser	Gln Gln Glu Ala	Glu Leu Gln Ile	Arg Trp Leu Pro
	115	120	125
Leu Pro Lys Ala	Ile Ala Trp Phe	Ala Ala Cys Val	Val Ala Ile Gly
	130	135	140
Phe Met Thr Val	Phe Ile Asp Pro	Val Phe Ala Phe	Leu Thr Arg Val
145	150	155	160
Ala Val Ser Val	Met Ser Gly Leu	Gly Leu Asn Val	Thr Met Pro Glu

				165				170					175				
Leu	Gln	Pro	Asp	Ala	Phe	Pro	Phe	Trp	Asp	Ser	Cys	Met	Met	Val	Leu		
			180					185					190				
Ser	Ile	Ala	Ala	Met	Ile	Leu	Met	Thr	Arg	Lys	Tyr	Val	Glu	Asn	Trp		
		195					200					205					
Leu	Leu	Trp	Val	Val	Ile	Asn	Val	Ile	Ser	Val	Val	Ile	Phe	Ala	Arg		
	210					215					220						
Gln	Gly	Val	Tyr	Ala	Met	Ser	Leu	Glu	Tyr	Met	Leu	Leu	Thr	Phe	Ile		
225					230					235					240		
Ala	Leu	Asn	Gly	Ser	Arg	Met	Trp	Ile	Asn	Ser	Ala	Arg	Glu	Arg	Gly		
				245					250					255			
Ser	Arg	Ala	Leu	Ser	Arg												
			260														

<210> 6672

<211> 359

<212> PRT

<213> Enterobacter cloacae

<400> 6672

Arg	Tyr	Gly	Arg	Ala	Gly	Lys	Lys	Met	Asn	Tyr	Gln	Asn	Asp	Asp	Leu		
1				5					10					15			
Arg	Ile	Lys	Glu	Ile	Asn	Glu	Leu	Leu	Pro	Pro	Val	Ala	Leu	Leu	Glu		
			20				25						30				
Lys	Phe	Pro	Ala	Thr	Glu	Asn	Ala	Ala	Asn	Thr	Val	Ser	His	Ala	Arg		
	35						40					45					
Lys	Ala	Ile	His	Lys	Ile	Leu	Lys	Gly	Ser	Asp	Asp	Arg	Leu	Leu	Val		
	50					55					60						
Val	Ile	Gly	Pro	Cys	Ser	Ile	His	Asp	Pro	Ala	Ala	Lys	Glu	Tyr			
65					70				75					80			
Ala	Ser	Arg	Leu	Leu	Ala	Leu	Arg	Glu	Glu	Leu	Lys	Gly	Glu	Leu	Glu		
				85				90						95			
Ile	Val	Met	Arg	Val	Tyr	Phe	Glu	Lys	Pro	Arg	Thr	Thr	Val	Gly	Trp		
			100					105						110			
Lys	Gly	Leu	Ile	Asn	Asp	Pro	His	Met	Asp	Asn	Ser	Phe	Gln	Ile	Asn		
			115				120					125					
Asp	Gly	Leu	Arg	Ile	Ala	Arg	Lys	Leu	Leu	Leu	Glu	Ile	Asn	Asp	Ser		
	130					135					140						
Gly	Leu	Pro	Ala	Ala	Gly	Glu	Phe	Leu	Asp	Met	Ile	Thr	Pro	Gln	Tyr		
145					150					155					160		
Leu	Ala	Asp	Leu	Met	Ser	Trp	Gly	Ala	Ile	Gly	Ala	Arg	Thr	Thr	Glu		
				165				170						175			
Ser	Gln	Val	His	Arg	Glu	Leu	Ala	Ser	Gly	Leu	Ser	Cys	Pro	Val	Gly		
			180					185					190				
Phe	Lys	Asn	Gly	Thr	Asp	Gly	Thr	Ile	Lys	Val	Ala	Ile	Asp	Ala	Ile		
		195					200					205					
Asn	Ala	Ala	Gly	Ala	Pro	His	Cys	Phe	Leu	Ser	Val	Thr	Lys	Trp	Gly		
	210					215					220						
His	Ser	Ala	Ile	Val	Asn	Thr	Ser	Gly	Asn	Gly	Asp	Cys	His	Ile	Ile		
225					230					235					240		
Leu	Arg	Gly	Gly	Lys	Glu	Pro	Asn	Tyr	Ser	Ala	Lys	His	Val	Ala	Glu		
				245				250						255			
Val	Lys	Ala	Gly	Leu	Glu	Lys	Ala	Gly	Leu	Ala	Pro	Gln	Val	Met	Ile		
			260					265					270				
Asp	Phe	Ser	His	Ala	Asn	Ser	Ser	Lys	Gln	Phe	Lys	Lys	Gln	Met	Glu		
		275					280					285					
Val	Gly	Ala	Asp	Val	Cys	Gln	Gln	Ile	Ala	Ser	Gly	Glu	Arg	Ala	Val		
	290					295					300						
Ile	Gly	Val	Met	Ile	Glu	Ser	His	Leu	Val	Glu	Gly	Asn	Gln	Asn	Leu		
305					310					315					320		
Glu	Gly	Ser	Glu	Pro	Leu	Val	Tyr	Gly	Lys	Ser	Val	Thr	Asp	Ala	Cys		

2807

Ile Gly Trp Asp Asp Thr Asp Ala Ile Leu Arg Gln Leu Ala Asp Ala
325 330 335
340 345 350
Val Lys Ala Arg Arg Gly
355

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<210> 6673
<211> 371
<212> PRT
<213> Enterobacter cloacae
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[illegible]

<210> 6674
 <211> 149
 <212> PRT
 <213> Enterobacter cloacae

<400> 6674
 Phe Arg Ser Pro Glu Ser Phe Ala Thr Glu Gln Asp Ala Leu Leu Glu
 1 5 10 15
 Asn Val Ile Gln Arg Asn Asp Lys Asn Arg Ser Thr Met Met Lys Met
 20 25 30
 Thr Lys Leu Thr Thr Leu Phe Leu Thr Ala Thr Leu Thr Leu Ala Ser
 35 40 45
 Gly Ser Val Leu Ala Ala Asp Ala Gly Ser Ser Gly Ser Asn Gly Asp
 50 55 60
 Ala Asn Ala Ala Ala Glu Ala Gly Gln Val Ala Pro Asp Ala Lys Gln
 65 70 75 80
 Asn Ile Ala Pro Asn Asn Val Asp Asn Ser Asn Ile Asn Thr Gly Asn
 85 90 95
 Thr Asn Thr Gly Gly Thr Asn Thr Gly Thr Met Asn His Glu Gly Met
 100 105 110
 Thr Thr Asp Glu Val His Lys Asn Ser Val Cys Lys Asp Gly Lys Cys
 115 120 125
 Pro Asp Pro Asn Asp Lys Val Gly Ser Asp Ala Asn Thr Lys Thr Asp
 130 135 140
 Gly Thr Thr Gln
 145

<210> 6675
 <211> 318
 <212> PRT
 <213> Enterobacter cloacae

<400> 6675
 Ile Arg Asn Asp Thr Met Ala His Ser His Ser His Ser His Ser Thr
 1 5 10 15
 Gly Asp Glu Asn Ala Lys Arg Leu Leu Leu Ala Phe Gly Val Thr Ala
 20 25 30
 Thr Phe Met Ile Ile Glu Val Thr Gly Gly Leu Ile Ser Gly Ser Leu
 35 40 45
 Ala Leu Leu Ala Asp Ala Gly His Met Leu Thr Asp Ala Ala Ala Leu
 50 55 60
 Leu Phe Ala Leu Leu Ala Val Gln Phe Ala Arg Arg Pro Pro Asn Ala
 65 70 75 80
 Arg His Thr Phe Gly Trp Leu Arg Leu Thr Thr Leu Ala Ala Phe Val
 85 90 95
 Asn Ala Ile Ala Leu Val Val Ile Thr Ile Leu Ile Val Trp Glu Ala
 100 105 110
 Phe Gln Arg Phe Arg His Pro Gln Pro Ile Ala Gly Thr Thr Met Met
 115 120 125
 Val Ile Ala Ile Ala Gly Leu Val Ala Asn Ile Leu Ala Phe Trp Ile
 130 135 140
 Leu His Arg Gly Ser Ser Glu Lys Asn Leu Asn Val Arg Ala Ala Ala
 145 150 155 160
 Leu His Val Leu Gly Asp Leu Leu Gly Ser Val Gly Ala Ile Val Ala
 165 170 175
 Ala Leu Ile Ile Met Gly Thr Gly Trp Thr Pro Ile Asp Pro Ile Leu
 180 185 190
 Ser Val Leu Val Ser Cys Leu Val Leu Arg Ser Ala Trp Arg Leu Leu
 195 200 205
 Lys Glu Ser Val Asn Glu Leu Leu Glu Gly Ala Pro Thr Ser Leu Asp
 210 215 220

Ile Gly Glu Leu Lys Arg Asn Leu Ser Arg Ser Ile Pro Glu Val Arg
 225 230 235 240
 Asn Val His His Val His Val Trp Leu Val Gly Glu Lys Pro Leu Met
 245 250 255
 Thr Leu His Val Gln Val Ile Pro Pro His Asp His Asp Ala Leu Leu
 260 265 270
 Glu Arg Ile Arg His Phe Leu Glu His His Tyr Glu Ile Ala His Ser
 275 280 285
 Thr Ile Gln Met Glu Tyr Gln Pro Cys Ser Gly Pro Asp Cys His Leu
 290 295 300
 Asn Glu Ala Gln Ser Gly His Ser His Ala His His His
 305 310 315

<210> 6676

<211> 394

<212> PRT

<213> Enterobacter cloacae

<400> 6676

Arg Arg Pro Leu Pro Arg Ile Arg Ser Leu Lys Met Ser Leu Lys Asp
 1 5 10 15
 Lys Thr Gln Ser Leu Phe Ala Glu Lys Phe Gly Tyr Pro Ala Thr His
 20 25 30
 Val Ile Gln Ala Pro Gly Arg Val Asn Leu Ile Gly Glu His Thr Asp
 35 40 45
 Tyr Asn Asp Gly Phe Val Leu Pro Cys Ala Ile Asp Tyr Gln Thr Val
 50 55 60
 Ile Ser Cys Ala Lys Arg Asp Asp Arg His Val Arg Val Ile Ala Ala
 65 70 75 80
 Asp Tyr Gly Asn Glu Ile Asp Glu Phe Ser Leu Asp Ala Pro Ile Val
 85 90 95
 Thr His Asp Ser Gln Gln Trp Ser Asn Tyr Val Arg Gly Val Val Lys
 100 105 110
 His Leu Gln Lys Arg Asn Lys Asn Phe Gly Gly Ala Asp Leu Val Ile
 115 120 125
 Ser Gly Asn Val Pro Gln Gly Ala Gly Leu Ser Ser Ser Ala Ser Leu
 130 135 140
 Glu Val Ala Val Gly Thr Val Phe Gln Gln Leu Tyr His Leu Pro Leu
 145 150 155 160
 Asp Gly Ala Gln Ile Ala Leu Asn Gly Gln Glu Ala Glu Asn Gln Phe
 165 170 175
 Val Gly Cys Asn Cys Gly Ile Met Asp Gln Leu Ile Ser Ala Leu Gly
 180 185 190
 Lys Lys Glu His Ala Leu Leu Ile Asp Cys Arg Ser Leu Gly Thr Lys
 195 200 205
 Ala Val Pro Leu Pro Lys Gly Ala Ala Val Val Ile Ile Asn Ser Asn
 210 215 220
 Phe Lys Arg Thr Leu Val Gly Ser Glu Tyr Asn Thr Arg Arg Glu Gln
 225 230 235 240
 Cys Glu Thr Gly Ala Arg Phe Phe Gln Gln Pro Ala Leu Arg Asp Val
 245 250 255
 Ser Leu Asp Glu Phe Asn Lys Val Ala His Glu Leu Asp Pro Val Val
 260 265 270
 Thr Lys Arg Val Arg His Ile Leu Thr Glu Asn Ala Arg Thr Val Glu
 275 280 285
 Ala Ala Ser Ala Leu Ala Lys Gly Asp Leu Lys Arg Met Gly Glu Leu
 290 295 300
 Met Ala Glu Ser His Ala Ser Met Arg Asp Asp Phe Glu Ile Thr Val
 305 310 315 320
 Pro Gln Ile Asp Thr Leu Val Glu Ile Val Lys Ala Thr Ile Gly Asp
 325 330 335

Lys Gly Gly Val Arg Met Thr Gly Gly Gly Phe Gly Gly Cys Val Val
 340 345 350
 Ala Leu Val Pro Glu Glu Leu Val Pro Ala Ile Gln Asp Ala Val Ala
 355 360 365
 Lys Gln Tyr Glu Ala Lys Thr Gly Ile Lys Glu Thr Phe Tyr Val Cys
 370 375 380
 Lys Ala Ser Gln Gly Ala Gly Gln Cys
 385 390

<210> 6677

<211> 252

<212> PRT

<213> Enterobacter cloacae

<400> 6677

Glu Met Ala Asn Thr Lys Leu Val Leu Val Arg His Gly Glu Ser Gln
 1 5 10 15
 Trp Asn Asn Glu Asn Arg Phe Thr Gly Trp Tyr Asp Val Asp Leu Ser
 20 25 30
 Glu Lys Gly Val Ser Glu Ala Lys Ala Ala Gly Lys Leu Leu Lys Glu
 35 40 45
 Glu Gly Phe Asn Phe Asp Phe Ala Tyr Thr Ser Val Leu Lys Arg Ala
 50 55 60
 Ile His Thr Leu Trp Asn Ile Leu Asp Glu Leu Asp Gln Ala Trp Leu
 65 70 75 80
 Pro Val Glu Lys Ser Trp Lys Leu Asn Glu Arg His Tyr Gly Ala Leu
 85 90 95
 Gln Gly Leu Asn Lys Ala Glu Thr Ala Glu Lys Tyr Gly Asp Glu Gln
 100 105 110
 Val Lys Gln Trp Arg Arg Gly Phe Ala Val Thr Pro Pro Glu Leu Ser
 115 120 125
 Lys Asp Asp Glu Arg Tyr Pro Gly His Asp Pro Arg Tyr Ala Lys Leu
 130 135 140
 Thr Glu Ala Glu Leu Pro Gln Thr Glu Ser Leu Ala Leu Thr Ile Asp
 145 150 155 160
 Arg Val Val Pro Tyr Trp Asn Glu Thr Ile Leu Pro Arg Leu Lys Ser
 165 170 175
 Gly Glu Arg Val Ile Ile Ala Ala His Gly Asn Ser Leu Arg Ala Leu
 180 185 190
 Val Lys Tyr Leu Asp Asn Met Gly Glu Asp Glu Ile Leu Glu Leu Asn
 195 200 205
 Ile Pro Thr Gly Val Pro Leu Val Tyr Glu Phe Asp Glu Asn Phe Lys
 210 215 220
 Pro Val Lys His Tyr Tyr Leu Gly Asn Ala Asp Glu Ile Ala Ala Lys
 225 230 235 240
 Ala Ala Ala Val Ala Asn Gln Gly Lys Ala Lys
 245 250

<210> 6678

<211> 406

<212> PRT

<213> Enterobacter cloacae

<400> 6678

Arg Ser Glu Gly Ala Ala Leu Arg Phe Ser Asp Asn Leu Gln Gln Tyr
 1 5 10 15
 Ile Ser Ile Ser Leu Ile Tyr Asn Ala Leu Ser Leu Arg Lys Ser Ala
 20 25 30
 Cys Glu Asn Gln Cys Lys Arg Tyr His Tyr Phe Ile Pro Cys His Thr
 35 40 45
 Phe Arg Val Ser Asp Met Leu Trp Leu Ile His Thr Ile Ser Leu Met

50					55					60					
Glu	Arg	Asn	Met	Arg	Val	Leu	Val	Thr	Gly	Gly	Ser	Gly	Tyr	Ile	Gly
65					70					75					80
Ser	His	Thr	Cys	Val	Gln	Leu	Leu	Gln	Ser	Gly	His	Asp	Val	Val	Ile
				85					90					95	
Leu	Asp	Asn	Leu	Cys	Asn	Ser	Lys	Arg	Ser	Val	Leu	Pro	Val	Ile	Glu
			100					105						110	
Arg	Leu	Ser	Gly	Lys	Gln	Pro	Thr	Phe	Val	Glu	Gly	Asp	Ile	Arg	Asn
			115					120					125		
Glu	Ala	Leu	Met	Thr	Glu	Ile	Leu	His	Asp	His	Ala	Ile	Glu	Thr	Val
								135					140		
Ile	His	Phe	Ala	Gly	Leu	Lys	Ala	Val	Gly	Glu	Ser	Val	Ala	Lys	Pro
145					150					155					160
Leu	Glu	Tyr	Tyr	Asp	Asn	Asn	Val	Asn	Gly	Thr	Leu	Arg	Leu	Ile	Ser
				165					170					175	
Ala	Met	Arg	Ala	Ala	Asn	Val	Lys	Asn	Phe	Ile	Phe	Ser	Ser	Ser	Ala
			180					185					190		
Thr	Val	Tyr	Gly	Asp	Gln	Pro	Lys	Ile	Pro	Tyr	Val	Glu	Ser	Phe	Pro
			195					200					205		
Thr	Gly	Thr	Pro	Gln	Ser	Pro	Tyr	Gly	Lys	Ser	Lys	Leu	Met	Val	Glu
								215					220		
Gln	Ile	Leu	Thr	Asp	Leu	Gln	Lys	Ala	Gln	Pro	Glu	Trp	Ser	Ile	Ala
225					230					235					240
Leu	Leu	Arg	Tyr	Phe	Asn	Pro	Val	Gly	Ala	His	Pro	Ser	Gly	Asp	Met
				245					250					255	
Gly	Glu	Asp	Pro	Gln	Gly	Ile	Pro	Asn	Asn	Leu	Met	Pro	Tyr	Ile	Ala
			260					265						270	
Gln	Val	Ala	Val	Gly	Arg	Arg	Asp	Ser	Leu	Ala	Ile	Phe	Gly	Asn	Asp
			275					280					285		
Tyr	Pro	Thr	Glu	Asp	Gly	Thr	Gly	Val	Arg	Asp	Tyr	Ile	His	Val	Met
			290				295					300			
Asp	Leu	Ala	Asp	Gly	His	Val	Ala	Ala	Met	Gln	Gln	Leu	Ala	Asp	Lys
305					310					315					320
Pro	Gly	Val	His	Ile	Tyr	Asn	Leu	Gly	Ala	Gly	Val	Gly	Ser	Ser	Val
				325					330					335	
Leu	Asp	Val	Val	Asn	Ala	Phe	Ser	Lys	Ala	Cys	Gly	Lys	Pro	Val	Lys
			340					345					350		
Tyr	His	Phe	Ala	Pro	Arg	Arg	Asp	Gly	Asp	Leu	Pro	Ala	Tyr	Trp	Ala
			355				360					365			
Asp	Ala	Thr	Lys	Ala	Asp	Lys	Glu	Leu	Asn	Trp	Arg	Val	Thr	Arg	Thr
			370				375					380			
Leu	Asp	Glu	Met	Ala	Gln	Asp	Thr	Trp	His	Trp	Gln	Ser	Arg	His	Pro
385					390					395					400
Gln	Gly	Tyr	Pro	Asp											
				405											

<210> 6679

<211> 352

<212> PRT

<213> Enterobacter cloacae

<400> 6679

Gly	Phe	Val	Met	Thr	Gln	Phe	Asn	Pro	Val	Asp	His	Pro	His	Arg	Arg
1				5					10					15	
Phe	Asn	Pro	Leu	Ser	Gly	Gln	Trp	Ile	Leu	Val	Ser	Pro	His	Arg	Ala
			20					25					30		
Lys	Arg	Pro	Trp	Gln	Gly	Ala	Gln	Glu	Thr	Pro	Ala	Lys	Gln	Thr	Leu
		35					40					45			
Pro	Gln	His	Asp	Pro	Asp	Cys	Phe	Leu	Cys	Pro	Gly	Asn	Thr	Arg	Val
		50				55					60				
Thr	Gly	Asp	Lys	Asn	Pro	Asp	Tyr	Lys	Gly	Thr	Phe	Val	Phe	Thr	Asn

65					70				75				80
Asp	Phe	Ala	Ala	Leu	Met	Thr	Asp	Thr	Pro	Asp	Ala	Pro	Glu
				85					90				Ser
Asp	Pro	Leu	Met	Arg	Cys	Glu	Ser	Ala	Arg	Gly	Thr	Ser	Arg
			100					105				110	Val
Cys	Phe	Ser	Pro	Asp	His	Ser	Lys	Thr	Leu	Pro	Glu	Leu	Ser
		115					120				125	Val	Asp
Ala	Leu	Lys	Glu	Val	Val	Ser	Thr	Trp	Gln	Val	Gln	Thr	Ala
		130					135				140	Glu	Leu
Gly	Gln	Ser	Tyr	Pro	Trp	Val	Gln	Val	Phe	Glu	Asn	Lys	Gly
145					150				155				Ala
Met	Gly	Cys	Ser	Asn	Pro	His	Pro	His	Gly	Gln	Ile	Trp	Ala
				165					170				Asn
Phe	Leu	Pro	Asn	Glu	Ala	Glu	Arg	Glu	Asp	Arg	Leu	Gln	Lys
			180					185				190	Ala
Phe	Ala	Gln	Asn	Gly	Ser	Pro	Met	Leu	Val	Asp	Tyr	Thr	Gln
		195					200					205	Arg
Leu	Ala	Asp	Gly	Ser	Arg	Thr	Val	Val	Glu	Thr	Glu	His	Trp
		210					215					220	Leu
Val	Val	Pro	Tyr	Trp	Ala	Ala	Trp	Pro	Phe	Glu	Thr	Leu	Leu
225					230				235			Leu	Pro
Lys	Ala	His	Val	Gln	Arg	Ile	Thr	Glu	Leu	Ser	Asp	Ala	Gln
				245					250				Arg
Asp	Leu	Ala	Leu	Ala	Leu	Lys	Lys	Leu	Thr	Ser	Arg	Tyr	Asp
			260					265				270	Asn
Phe	Gln	Cys	Ser	Phe	Pro	Tyr	Ser	Met	Gly	Trp	His	Gly	Ala
		275					280					285	Pro
Asn	Gly	Glu	Glu	Asn	Gln	His	Trp	Gln	Leu	His	Ala	His	Phe
		290				295				300			Tyr
Pro	Leu	Leu	Arg	Ser	Ala	Thr	Val	Arg	Lys	Phe	Met	Val	Gly
305					310				315				Tyr
Met	Leu	Ala	Glu	Thr	Gln	Arg	Asp	Leu	Thr	Ala	Glu	Gln	Ala
				325					330				Ala
Arg	Leu	Arg	Ala	Val	Ser	Asp	Val	His	Tyr	Arg	Glu	Ser	Gly
			340					345					Val
													350

<210> 6680

<211> 232

<212> PRT

<213> Enterobacter cloacae

<400> 6680

Gln	Ser	Arg	Tyr	Ser	Pro	Pro	Lys	Arg	Glu	Thr	Lys	Asp	Asp	Lys	Glu
1				5					10					15	
Ser	Pro	Asp	Asn	Met	Thr	Leu	Lys	His	Ser	Asn	Leu	Leu	His	Leu	Asp
			20					25					30		
Leu	His	Thr	Asn	His	Val	Thr	Met	Thr	Asn	Ile	Arg	Thr	Val	Leu	Gly
		35					40					45			
Ser	Met	Glu	Leu	Asp	Glu	Met	Leu	Ser	Gln	Arg	Asp	Ser	Ile	Asn	Thr
		50				55					60				
Arg	Leu	Leu	His	Ile	Val	Asp	Glu	Ala	Thr	Asn	Pro	Trp	Gly	Ile	Lys
65				70					75					80	
Val	Thr	Arg	Ile	Glu	Ile	Arg	Asp	Val	Arg	Pro	Pro	Ala	Glu	Leu	Ile
				85					90					95	
Ala	Ser	Met	Asn	Ala	Gln	Met	Lys	Ala	Glu	Arg	Thr	Lys	Arg	Ala	Tyr
			100					105					110		
Ile	Leu	Glu	Ala	Glu	Gly	Val	Arg	Gln	Ala	Glu	Ile	Leu	Lys	Ala	Glu
		115					120					125			
Gly	Glu	Lys	Gln	Ser	Gln	Ile	Leu	Lys	Ala	Glu	Gly	Asp	Arg	Gln	Ser
		130				135					140				
Ala	Phe	Leu	Gln	Ala	Glu	Ala	Arg	Glu	Arg	Ser	Ala	Glu	Ala	Glu	Ala

145		150		155		160									
Arg	Ala	Thr	Gln	Met	Val	Ser	Glu	Ala	Ile	Ala	Ala	Gly	Asp	Ile	Gln
				165					170					175	
Ala	Val	Asn	Tyr	Phe	Val	Ala	Gln	Lys	Tyr	Thr	Asp	Ala	Leu	Lys	Glu
			180					185					190		
Ile	Gly	Ser	Ala	Asn	Asn	Ser	Lys	Val	Val	Met	Met	Pro	Leu	Asp	Ala
		195					200					205			
Ser	Ser	Leu	Met	Gly	Ser	Ile	Ala	Gly	Ile	Ala	Glu	Leu	Ile	Lys	Asp
	210					215					220				
Gly	Gly	Asn	Glu	Arg	Lys	Lys									
225					230										

<210> 6681

<211> 286

<212> PRT

<213> Enterobacter cloacae

<400> 6681

Thr	Glu	Arg	Leu	Asn	Leu	Val	Pro	Val	Arg	Ala	Ser	Met	Asn	Leu	Ser
1				5					10					15	
Val	Tyr	Gly	Ala	Arg	Met	Gly	Leu	Phe	Asn	Arg	Ile	Lys	Thr	Ser	Phe
			20					25					30		
Arg	Ala	Leu	Phe	Pro	Arg	Arg	Tyr	Ala	Trp	Pro	Gly	Met	Asp	Ile	Ser
		35					40					45			
Leu	Pro	Gly	Gly	Gln	His	Leu	His	Leu	Val	Gly	Ser	Ile	His	Met	Gly
	50					55					60				
Thr	Gln	Asp	Met	Ser	Pro	Leu	Pro	Ser	Gly	Leu	Ile	Lys	Leu	Leu	Lys
65					70					75					80
Arg	Ala	Asp	Ala	Leu	Ile	Val	Glu	Ala	Asp	Ile	Ser	Gly	His	Glu	Ser
				85					90					95	
Pro	Phe	Ala	Gly	Leu	Glu	Ser	Asp	Arg	Pro	Leu	Ala	Glu	Arg	Leu	Asn
			100					105					110		
Glu	Thr	Gln	Leu	Ala	Glu	Leu	Thr	Arg	Leu	Ala	Asp	Glu	Thr	Gly	Val
		115					120					125			
Ser	Leu	Ser	Met	Leu	Asp	Thr	Leu	Pro	Leu	Trp	Gln	Ile	Ala	Met	Val
	130					135					140				
Leu	Gln	Ala	Thr	Gln	Ala	Gln	Arg	Leu	Gly	Leu	Arg	Gly	Asp	Tyr	Gly
145					150					155					160
Ile	Asp	Tyr	Gln	Leu	Asn	Ala	Ala	Arg	Ala	Arg	Asn	Leu	Ser	Ile	
				165				170					175		
Ile	Glu	Leu	Glu	Gly	Thr	Gly	Ser	Gln	Ile	Ala	Leu	Leu	Arg	Gln	Leu
		180						185					190		
Pro	Asp	Asp	Gly	Leu	Ile	Leu	Leu	Asp	Asp	Thr	Leu	Thr	His	Trp	His
	195						200					205			
Thr	Asn	Ala	Arg	Leu	Leu	Gln	Thr	Met	Ile	Gly	Trp	Trp	Leu	Asp	Ala
	210					215					220				
Pro	Pro	Ala	Asp	Gly	Lys	Leu	Ala	Leu	Pro	Ser	Thr	Phe	Ser	Glu	Ser
225					230					235					240
Leu	Tyr	Asp	Val	Leu	Met	Asn	Ala	Arg	Asn	Gln	Ala	Trp	Arg	Glu	Thr
				245					250					255	
Leu	Tyr	Ala	Leu	Pro	Ala	Gly	Arg	Tyr	Val	Val	Ala	Val	Gly	Ala	Leu
		260						265					270		
His	Leu	Tyr	Gly	Glu	Gly	Asn	Leu	Pro	Ser	Leu	Leu	Lys			
	275						280					285			

<210> 6682

<211> 193

<212> PRT

<213> Enterobacter cloacae

<400> 6682

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Pro Ser Leu Pro Ile Leu Leu Arg Lys Met Val Leu Phe Phe Arg Gln
1      5      10      15
Thr Ser Gly Val Cys Cys Trp His Glu Ser Ser Val Val Arg Arg Ile
20      25      30
Ala Met Thr Pro Ala Val Lys Leu Leu Glu Lys Asn Lys Ile Ser Phe
35      40      45
Arg Ile His Thr Tyr Asp His Asp Pro Asn Glu Thr Asn Phe Gly Asp
50      55      60
Glu Val Val Arg Lys Leu Gly Leu Asn Ala Asp Gln Val Tyr Lys Thr
65      70      75      80
Leu Leu Val Ala Val Asn Gly Asp Met Lys His Leu Ala Val Ala Val
85      90      95
Thr Pro Val Ala Gly Gln Leu Asp Leu Lys Lys Val Ala Lys Ala Leu
100      105      110
Gly Ala Lys Lys Val Asp Met Ala Asp Pro Met Val Ala Gln Arg Thr
115      120      125
Thr Gly Tyr Leu Val Gly Gly Ile Ser Pro Leu Gly Gln Lys Lys Arg
130      135      140
Leu Pro Thr Leu Ile Asp Ala Pro Ser Gln Glu Phe Glu Thr Ile Tyr
145      150      155      160
Ile Ser Gly Gly Lys Arg Gly Leu Asp Ile Glu Leu Ser Ala Gly Asp
165      170      175
Leu Ala Lys Met Leu Asp Ala Lys Phe Ala Asp Ile Ala Arg Arg Asp
180      185      190

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<210> 6683

<211> 880

<212> PRT

<213> Enterobacter cloacae

<400> 6683

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Ala Gly Phe Phe Arg Asn Ile Ala Asp Ile His Ile Ser Pro Leu Thr
1      5      10      15
Phe Pro Leu Met Glu Gly Leu Thr Phe Ile Thr Val Ser Glu Lys Gln
20      25      30
Ser Glu Gly Gln Gln Leu Thr Arg Thr Leu Tyr Gly Ser Phe Val Met
35      40      45
Ser His Thr Ile Asp Leu Thr Leu Asp Gly Leu Ser Cys Gly His Cys
50      55      60
Val Lys Arg Val Lys Glu Ser Leu Glu Gln Arg Pro Asp Val Glu Ser
65      70      75      80
Ala Glu Val Thr Ile Asp His Ala Ala Val Thr Gly Ser Ala Ser Ala
85      90      95
Asp Ala Leu Ile Asp Thr Ile Lys Gln Ala Gly Tyr Gly Ala Glu Leu
100      105      110
Ser His Pro Lys Ala Lys Pro Leu Ala Glu Ser Ser Ser Pro Ser Glu
115      120      125
Ala Leu Thr Ala Ala Thr Pro Glu Leu Pro Val Ala Asp Asp Ile Asp
130      135      140
Asp Ser Gln Gln Leu Leu Ile Asn Gly Met Ser Cys Ala Ser Cys Val
145      150      155      160
Ser Arg Val Gln Asn Ala Leu Gln Ala Val Pro Gly Val Ala Gln Ala
165      170      175
Arg Val Asn Leu Ala Glu Arg Thr Ala Leu Val Met Gly Ser Ala Ser
180      185      190
Ala Ala Glu Leu Val Gln Ala Val Glu Lys Ala Gly Tyr Gly Ala Glu
195      200      205
Ala Ile Glu Asp Asp Ala Glu Arg Arg Glu Arg Gln Gln Glu Thr Ala
210      215      220

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Val	Ala	Thr	Met	Lys	Arg	Phe	Arg	Trp	Gln	Ala	Ile	Val	Ala	Leu	Leu
225					230					235					240
Val	Gly	Ile	Pro	Val	Met	Val	Trp	Gly	Met	Met	Gly	Asp	Asn	Met	Met
				245					250					255	
Val	Thr	Ala	Asp	Asn	Arg	Thr	Leu	Trp	Leu	Val	Ile	Gly	Leu	Ile	Thr
			260					265					270		
Leu	Ala	Val	Met	Val	Phe	Ala	Gly	Gly	His	Phe	Tyr	Thr	Ser	Ala	Trp
		275					280					285			
Lys	Ser	Leu	Lys	Asn	Arg	Thr	Ala	Thr	Met	Asp	Thr	Leu	Val	Ala	Leu
	290					295					300				
Gly	Thr	Gly	Ala	Ala	Trp	Leu	Tyr	Ser	Met	Ser	Val	Asn	Val	Trp	Pro
305					310					315					320
Gln	Trp	Phe	Pro	Met	Glu	Ala	Arg	His	Leu	Tyr	Tyr	Glu	Ala	Ser	Ala
				325					330					335	
Met	Ile	Ile	Gly	Leu	Ile	Asn	Leu	Gly	His	Met	Leu	Glu	Ala	Arg	Ala
			340					345					350		
Arg	Gln	Arg	Ser	Ser	Lys	Ala	Leu	Glu	Arg	Leu	Leu	Asp	Leu	Thr	Pro
		355					360					365			
Pro	Thr	Ala	Arg	Val	Val	Thr	Asp	Glu	Gly	Glu	Lys	Ser	Val	Pro	Leu
	370					375					380				
Ala	Glu	Val	Gln	Pro	Gly	Met	Thr	Leu	Arg	Leu	Thr	Thr	Gly	Asp	Arg
385					390					395					400
Val	Pro	Val	Asp	Gly	Lys	Ile	Ser	Gln	Gly	Glu	Ala	Trp	Leu	Asp	Glu
				405					410					415	
Ala	Met	Leu	Thr	Gly	Glu	Pro	Ile	Pro	Gln	Gln	Lys	Ser	Asp	Gly	Asp
			420					425					430		
Ala	Val	His	Ala	Gly	Thr	Val	Val	Gln	Asp	Gly	Ser	Val	Leu	Phe	Arg
		435					440					445			
Ala	Ser	Ala	Val	Gly	Ser	His	Thr	Thr	Leu	Ser	Arg	Ile	Ile	Arg	Met
	450					455					460				
Val	Arg	Gln	Ala	Gln	Ser	Lys	Pro	Glu	Ile	Gly	Gln	Leu	Ala	Asp	
465					470				475					480	
Lys	Ile	Ser	Ala	Ile	Phe	Val	Pro	Val	Val	Val	Gly	Ile	Ala	Leu	Leu
			485						490					495	
Ser	Ala	Ala	Ile	Trp	Tyr	Phe	Phe	Gly	Pro	Ala	Pro	Gln	Ile	Val	Tyr
			500					505					510		
Thr	Leu	Val	Ile	Ala	Thr	Thr	Val	Leu	Ile	Ile	Ala	Cys	Pro	Cys	Ala
		515					520					525			
Leu	Gly	Leu	Ala	Thr	Pro	Met	Ser	Ile	Ile	Ser	Gly	Val	Gly	Arg	Ala
	530					535					540				
Ala	Glu	Phe	Gly	Val	Leu	Val	Arg	Asp	Ala	Asp	Ala	Leu	Gln	Arg	Ala
545					550					555					560
Ser	Thr	Leu	Asp	Thr	Leu	Val	Phe	Asp	Lys	Thr	Gly	Thr	Leu	Thr	Glu
			565						570					575	
Gly	Lys	Pro	Gln	Val	Val	Ala	Val	Ser	Thr	Val	Gly	Cys	Thr	Glu	Thr
			580					585					590		
Asp	Ala	Leu	Arg	Leu	Ala	Ala	Ala	Leu	Glu	Gln	Gly	Ser	Ser	His	Pro
		595					600					605			
Leu	Ala	Arg	Ala	Ile	Leu	Glu	Lys	Ala	Gly	Asp	Ala	Arg	Leu	Pro	Gln
	610					615					620				
Val	Ser	Asn	Phe	Arg	Thr	Leu	Arg	Gly	Leu	Gly	Val	Ser	Gly	Glu	Ala
625					630					635					640
Glu	Gly	His	Thr	Leu	Leu	Leu	Gly	Asn	Gln	Ala	Leu	Leu	Thr	Glu	His
			645						650					655	
Gly	Val	Asp	Thr	Ser	Ala	Leu	Asp	Ala	Glu	Leu	Asn	Ala	Gln	Ala	Ser
			660					665					670		
Gln	Gly	Ala	Thr	Pro	Val	Leu	Leu	Ala	Arg	Asp	Gly	Gln	Val	Ala	Ala
		675					680					685			
Leu	Leu	Ala	Val	Arg	Asp	Pro	Leu	Arg	Gln	Asp	Ser	Val	Asp	Ala	Leu
	690					695					700				
Gln	Arg	Leu	His	Arg	Ala	Gly	Tyr	Arg	Leu	Val	Met	Leu	Thr	Gly	Asp

705					710					715				720	
Asn	Pro	Thr	Thr	Ala	Asn	Ala	Ile	Ala	Lys	Glu	Ala	Gly	Ile	Asp	Glu
				725					730					735	
Val	Ile	Ala	Gly	Val	Leu	Pro	Asp	Gly	Lys	Ala	Asp	Ala	Ile	Lys	Asn
			740					745					750		
Leu	Gln	Ser	Gln	Gly	Arg	Gln	Val	Ala	Met	Val	Gly	Asp	Gly	Ile	Asn
		755				760						765			
Asp	Ala	Pro	Ala	Leu	Ala	Gln	Ala	Asp	Val	Gly	Ile	Ala	Met	Gly	Gly
	770					775					780				
Gly	Ser	Asp	Val	Ala	Ile	Glu	Thr	Ala	Ala	Ile	Thr	Leu	Met	Arg	His
785					790					795					800
Ser	Leu	Met	Gly	Val	Ala	Asp	Ala	Leu	Ala	Ile	Ser	Lys	Ala	Thr	Leu
				805					810					815	
Arg	Asn	Met	Lys	Gln	Asn	Leu	Leu	Gly	Ala	Phe	Val	Tyr	Asn	Ser	Leu
			820					825					830		
Gly	Ile	Pro	Ile	Ala	Ala	Gly	Ile	Leu	Trp	Pro	Leu	Thr	Gly	Thr	Leu
		835					840					845			
Leu	Asn	Pro	Val	Val	Ala	Gly	Ala	Ala	Met	Ala	Leu	Ser	Ser	Ile	Thr
	850					855					860				
Val	Val	Ser	Asn	Ala	Asn	Arg	Leu	Leu	Arg	Phe	Lys	Pro	Lys	Asp	
865					870					875					880

<210> 6684

<211> 152

<212> PRT

<213> Enterobacter cloacae

<400> 6684

Lys	Met	Ile	Glu	Leu	Ile	Val	Ala	His	Pro	His	Ala	Phe	Trp	Leu	Ser
1				5					10					15	
Leu	Gly	Gly	Leu	Leu	Leu	Ala	Ala	Glu	Met	Leu	Gly	Gly	Asn	Gly	Tyr
			20					25					30		
Leu	Leu	Trp	Ser	Gly	Val	Ala	Ala	Val	Ile	Thr	Gly	Leu	Val	Val	Trp
		35					40					45			
Leu	Leu	Pro	Val	Gly	Trp	Glu	Trp	Gln	Gly	Ala	Leu	Phe	Ala	Val	Leu
	50					55					60				
Thr	Leu	Leu	Ala	Ala	Trp	Leu	Trp	Trp	Arg	Trp	Leu	Asn	Lys	Arg	Val
65					70					75					80
Lys	Ala	Gln	Lys	Pro	Val	Asp	Ala	His	Leu	Asn	Gln	Arg	Gly	Gln	Gln
				85					90					95	
Ile	Val	Gly	Lys	Arg	Phe	Thr	Leu	Asp	Asn	Thr	Leu	Ile	Asn	Gly	Arg
			100					105					110		
Gly	His	Met	Arg	Val	Gly	Asp	Ser	Ser	Trp	Pro	Val	Val	Ala	Asp	Asp
		115					120					125			
Asp	Leu	Ser	Ala	Gly	Thr	Arg	Val	Glu	Val	Ile	Ala	Val	Glu	Gly	Ile
	130					135					140				
Thr	Leu	Arg	Val	Lys	Ala	Cys									
145					150										

<210> 6685

<211> 342

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (331)

<400> 6685

Gln	Ile	Asp	Val	Val	Phe	Met	Ala	Ile	Ser	Glu	Ser	Thr	Gln	Pro	Val
1				5					10					15	

Gln Gly Ala Pro Ala Ser Pro Pro Lys Ser Arg Thr Ser Phe Lys Val
 20 25 30
 Leu Gly Ala Ile Ser Leu Ser His Leu Leu Asn Asp Met Ile Gln Ser
 35 40 45
 Leu Ile Leu Ala Ile Tyr Pro Leu Leu Gln Ser Glu Phe Ser Leu Thr
 50 55 60
 Phe Val Gln Ile Gly Met Ile Thr Leu Thr Phe Gln Leu Ala Ser Ser
 65 70 75 80
 Leu Leu Gln Pro Val Val Gly Tyr Trp Thr Asp Lys Tyr Pro Met Pro
 85 90 95
 Trp Ser Leu Pro Ile Gly Met Cys Phe Thr Leu Ser Gly Leu Val Leu
 100 105 110
 Leu Ala Met Ala Gly Ser Phe Glu Ala Val Leu Val Ala Ala Leu
 115 120 125
 Val Gly Thr Gly Ser Ser Val Phe His Pro Glu Ser Ser Arg Val Ala
 130 135 140
 Arg Met Ala Ser Gly Gly Arg His Gly Leu Ala Gln Ser Leu Phe Gln
 145 150 155 160
 Val Gly Gly Asn Phe Gly Ser Ser Leu Gly Pro Leu Leu Ala Ala Val
 165 170 175
 Ile Ile Ala Pro Tyr Gly Lys Gly Asn Val Ala Trp Phe Val Leu Ala
 180 185 190
 Ala Leu Leu Ala Ile Val Val Leu Ala Gln Ile Ser Arg Trp Tyr Ala
 195 200 205
 Ala Gln His Arg Val Asn Lys Gly Lys Pro Ala Val Lys Ile Thr Asn
 210 215 220
 Pro Leu Pro Arg Asn Lys Val Ile Leu Ala Val Ser Val Leu Leu Val
 225 230 235 240
 Leu Ile Phe Ser Lys Tyr Phe Tyr Met Ala Ser Ile Ser Ser Tyr Tyr
 245 250 255
 Thr Phe Tyr Leu Met Gln Lys Phe Gly Leu Ser Val Gln Asn Ala Gln
 260 265 270
 Phe His Leu Phe Ala Phe Leu Phe Ala Val Ala Ala Gly Thr Val Ile
 275 280 285
 Gly Gly Pro Val Gly Asp Lys Ile Gly Arg Lys Tyr Val Ile Trp Gly
 290 295 300
 Ser Ile Leu Gly Val Ala Pro Phe Thr Leu Val Leu Pro Tyr Ala Thr
 305 310 315 320
 Leu Glu Trp Thr Gly Ile Leu Ser Ser Thr Xaa Ala Asp Gly Thr Tyr
 325 330 335
 Thr Ser Pro Pro Pro Pro
 340

<210> 6686

<211> 566

<212> PRT

<213> Enterobacter cloacae

<400> 6686

Val Thr Val Ile Phe Ala Phe Val Tyr Gly Ser Gly Arg Glu Lys Met
 1 5 10 15
 Lys Leu Met Lys Arg Gly Val Ala Leu Ala Leu Ile Ala Ala Trp Gly
 20 25 30
 Leu Thr Ser Leu Pro Ala Gln Ala Tyr Glu Lys Asp Lys Thr Tyr Lys
 35 40 45
 Ile Thr Ile Leu His Thr Asn Asp His His Gly His Phe Trp Arg Ser
 50 55 60
 Glu Tyr Gly Glu Tyr Gly Leu Ala Ala Gln Lys Thr Leu Val Asp Gly
 65 70 75 80
 Ile Arg Lys Glu Val Ala Ala Gln Gly Gly Ser Val Leu Leu Leu Ser
 85 90 95

[illegible]

<210> 6687
 <211> 148
 <212> PRT
 <213> Enterobacter cloacae

<400> 6687
 Thr Phe His Gln Gly Glu Gly Gln Gly Gly Asn Val Asn Ile Ser Asp
 1 5 10 15
 Val Ala Lys Lys Thr Gly Leu Thr Ser Lys Ala Ile Arg Phe Tyr Glu
 20 25 30
 Glu Lys Gly Leu Val Thr Pro Pro Leu Arg Ser Glu Asn Gly Tyr Arg
 35 40 45
 Ser Tyr Thr Gln Leu His Leu Asp Glu Leu Thr Leu Arg Gln Ala
 50 55 60
 Arg Gln Val Gly Phe Asn Leu Glu Glu Cys Gly Glu Leu Val Asn Leu
 65 70 75 80
 Phe Asn Asp Pro Lys Arg His Ser Ala Asp Val Lys Lys Arg Thr Leu
 85 90 95
 Glu Lys Val Ala Glu Ile Glu Arg His Ile Ile Glu Leu Gln Ala Met
 100 105 110
 Arg Glu Gln Leu Leu Gln Leu Ala Glu Ser Cys Pro Gly Asp Asp Ser
 115 120 125
 Ala Glu Cys Pro Ile Ile Asp Asn Leu Ser Gly Cys Cys His Arg Lys
 130 135 140
 Thr His Ala
 145

<210> 6688
 <211> 69
 <212> PRT
 <213> Enterobacter cloacae

<400> 6688
 Arg Ile Gly Phe Gln Arg Trp Glu Pro Phe Leu Tyr Arg Lys Phe Ile
 1 5 10 15
 Met Arg Thr Ala Tyr Ala Tyr Ile Arg Phe Ser Ser Glu Lys Gln Ser
 20 25 30
 Ala Gly Asp Ser Val Arg Arg Gln Ser Leu Ile Asp Ser Trp Val
 35 40 45
 Lys Asn Asn Pro Asp Tyr Ile Leu Ser Phe Phe Thr Thr Ala Ala Lys
 50 55 60
 Val Thr Leu Leu Val
 65

<210> 6689
 <211> 245
 <212> PRT
 <213> Enterobacter cloacae

<400> 6689
 Cys Thr His His Leu Asn Thr Phe Asp Gly Gly Val Ser Arg Leu His
 1 5 10 15
 Gly Phe Lys Ser Gln Arg Gly Ala Asp Tyr Pro Phe Gln Phe Ala Met
 20 25 30
 Ile Ala Phe Asn His Val Val Pro Val Leu Asn Leu Ser Val Phe Asn
 35 40 45
 Val Arg Arg Ala Pro Ala Phe Ala Phe Glu Gln Ser Lys Arg Ala Thr
 50 55 60
 Ile Gly Gly Arg Phe Ile Arg Val Asp Glu Ser Arg Asp Leu Pro Leu
 65 70 75 80
 Leu His Val Val Glu Asp Phe Thr Gln Lys Pro Val Cys Ser Phe Ala

				85					90					95			
Val	Thr	Thr	Gly	Gly	Glu	Ile	Lys	Ile	Asp	Ser	Ala	Ala	Pro	Ala	Val		
			100					105					110				
Asp	Gly	Pro	Val	Gln	Ile	Arg	Pro	Ala	Ala	Ile	Asp	Leu	His	Val	Gly		
		115					120					125					
Phe	Ile	His	Val	Pro	Arg	Ala	Lys	Ile	Gly	Arg	Val	Thr	Pro	Val	Pro		
	130					135					140						
Ala	Gln	Pro	Phe	Phe	His	Phe	Arg	Arg	Ile	Thr	Leu	Asn	Pro	Ala	Val		
145					150					155					160		
Asn	Arg	Gly	Val	Ile	Asp	Ile	His	Ser	Ala	Phe	Ser	Gln	His	Leu	Leu		
			165						170					175			
Gln	Leu	Thr	Val	Thr	Asp	Ala	Val	Phe	Ala	Val	Pro	Ala	Tyr	Gly	Pro		
		180						185					190				
Gln	Asn	Asp	Val	Thr	Leu	Lys	Met	Pro	Ala	Phe	Glu	Trp	Val	His	Val		
		195					200					205					
Gln	Leu	His	Gln	Gln	Lys	Gly	Met	Ile	Ser	Leu	Ser	Pro	Pro	Thr	Ile		
	210					215					220						
Cys	Asn	Ser	Ala	Pro	Ser	Asp	Val	Thr	Leu	His	Lys	Ile	Lys	Ile	Tyr		
225					230					235					240		
His	His	Glu	Gln														
				245													

<210> 6690

<211> 76

<212> PRT

<213> Enterobacter cloacae

<400> 6690

Asn	Ala	His	Ile	Gly	Thr	Tyr	Gln	Cys	Arg	Phe	Leu	Gly	Thr	Ile	Met		
1				5					10					15			
Gly	Arg	Gly	Arg	Arg	Leu	Lys	Ser	Tyr	Leu	Asp	Tyr	Glu	Asn	Ala	Leu		
			20					25					30				
Gly	Asp	Gly	Ile	Gly	Val	Gly	Tyr	Gly	Gln	Ser	Tyr	Gln	Pro	Trp	Leu		
		35				40						45					
Arg	Ala	Gln	Asp	Val	Lys	Ser	Arg	Gly	Asn	Arg	Ser	Ile	Val	Phe	Gly		
	50					55					60						
Leu	Lys	Thr	Phe	Arg	Asn	His	His	His	Gly	Val							
65					70					75							

<210> 6691

<211> 287

<212> PRT

<213> Enterobacter cloacae

<400> 6691

Thr	Ile	Lys	Leu	Ser	Ala	Tyr	Ile	Asn	Ser	Asn	Thr	Arg	Gly	Val	Met		
1				5					10					15			
Ser	His	Ile	Gln	Arg	Glu	Thr	Ser	Cys	Ser	Arg	Pro	Arg	Leu	Asn	Ser		
		20						25					30				
Asn	Met	Asp	Ala	Asp	Leu	Tyr	Gly	Tyr	Lys	Trp	Ala	Arg	Asp	Asn	Val		
		35					40					45					
Gly	Gln	Ser	Gly	Ala	Thr	Ile	Tyr	Arg	Leu	Tyr	Gly	Lys	Pro	Asp	Ala		
	50					55					60						
Pro	Glu	Leu	Phe	Leu	Lys	His	Gly	Lys	Gly	Ser	Val	Ala	Asn	Asp	Val		
65					70					75					80		
Thr	Asp	Glu	Met	Val	Arg	Leu	Asn	Trp	Leu	Thr	Glu	Phe	Met	Pro	Leu		
				85					90					95			
Pro	Thr	Ile	Lys	His	Phe	Ile	Arg	Thr	Pro	Asp	Asp	Ala	Trp	Leu	Leu		
		100						105					110				
Thr	Thr	Ala	Ile	Pro	Gly	Lys	Thr	Ala	Phe	Gln	Val	Leu	Glu	Glu	Tyr		
		115					120					125					

[illegible]

$\langle 211 \rangle$ 262

<213> Ent

Cys Thr H

[illegible]

<210> 6693
 <211> 85
 <212> PRT
 <213> Enterobacter cloacae

<400> 6693
 Val Arg Asn Val Val Gln Arg Gln Val Ser Ala Asp Asp Phe Met Cys
 1 5 10 15
 Phe Thr Val Asn Gly Glu Met Gln Leu Thr Pro Asp Thr Ala Ala Phe
 20 25 30
 Leu Ala Met Leu Phe Asp Phe Pro Leu Ala Phe Thr Glu Asp Leu Gln
 35 40 45
 Pro Gly Gly Ile Asn Tyr Gln Val Cys Asp Phe Thr Pro Gly Gly Arg
 50 55 60
 Phe Glu Thr Asp Ile Asn Arg Leu Cys Pro Pro Ala Asp Thr Ala Val
 65 70 75 80
 Ile Arg Ala Ala
 85

<210> 6694
 <211> 555
 <212> PRT
 <213> Enterobacter cloacae

<400> 6694
 Leu Ser Ser Met Phe Leu Leu Val Tyr Tyr Phe Pro Glu Val Leu Met
 1 5 10 15
 Pro Val Leu Phe Arg Val Lys Val Ile Pro Leu Val Leu Leu Ala
 20 25 30
 Met Ile Phe Ala Phe Leu Leu Asn Trp Pro Ile Leu Leu His Phe Tyr
 35 40 45
 Glu Ile Leu Ser His Leu Glu His Val Lys Ile Gly Phe Val Ile Ser
 50 55 60
 Ile Pro Phe Val Leu Val Ala Ala Leu Asn Val Val Phe Met Pro Phe
 65 70 75 80
 Ser Val Arg Phe Leu Leu Lys Pro Phe Phe Ala Leu Leu Phe Ile Thr
 85 90 95
 Gly Ser Leu Val Ser Tyr Ser Thr Leu Lys Tyr Lys Leu Met Phe Asp
 100 105 110
 Gln Thr Met Ile Gln Asn Ile Ile Glu Thr Asn Pro Gln Glu Ala His
 115 120 125
 Ser Tyr Leu Asn Gly Ser Ile Ile Ile Trp Phe Val Phe Thr Gly Ile
 130 135 140
 Leu Pro Ala Ile Leu Leu Phe Ser Ile Lys Ile Gln Tyr Pro Glu Lys
 145 150 155 160
 Trp Tyr Lys Gly Ile Ala Tyr Arg Leu Leu Ser Val Leu Ala Ser Leu
 165 170 175
 Ser Leu Ile Ala Gly Val Ala Ala Leu Tyr Tyr Gln Asp Tyr Ala Ser
 180 185 190
 Val Gly Arg Asn Asn Ser Thr Leu Asn Lys Glu Ile Ile Pro Ala Asn
 195 200 205
 Tyr Ala Tyr Ser Thr Phe Gln Tyr Val Lys Asp Thr Tyr Phe Thr Thr
 210 215 220
 Lys Val Pro Phe Gln Thr Leu Gly Asn Asp Ala Lys Arg Val Val Ala
 225 230 235 240
 His Glu Lys Pro Thr Leu Met Phe Leu Val Ile Gly Glu Thr Ala Arg
 245 250 255
 Ser Gln Asn Phe Ser Met Asn Gly Tyr Ser Arg Asp Thr Asn Ala Phe
 260 265 270
 Thr Ser Lys Ser Gly Gly Val Ile Ser Phe Lys Asn Met His Ser Cys

	275		280		285										
Gly	Thr	Ala	Thr	Ala	Ile	Ser	Val	Pro	Cys	Met	Phe	Ser	Asn	Met	Asn
	290					295					300				
Arg	Thr	Glu	Tyr	Asp	Ser	Lys	Lys	Ala	Ser	Asn	Ser	Glu	Asn	Phe	Leu
305					310					315					320
Asp	Ile	Val	Gln	Lys	Thr	Gly	Val	Ser	Leu	Leu	Trp	Lys	Glu	Asn	Asp
				325					330					335	
Gly	Gly	Cys	Lys	Gly	Val	Cys	Ser	Arg	Ile	Pro	Thr	Val	Glu	Ile	Lys
			340					345					350		
Pro	Ser	Asp	Asn	Pro	Lys	Leu	Cys	Asp	Gly	Lys	Thr	Cys	His	Asp	Glu
		355					360					365			
Val	Met	Leu	Glu	Asn	Leu	Asp	Asp	Glu	Ile	Ala	Lys	Met	Pro	Gly	Asp
	370					375					380				
Lys	Leu	Val	Ala	Phe	His	Ile	Ile	Gly	Ser	His	Gly	Pro	Thr	Tyr	Tyr
385					390					395					400
Leu	Arg	Tyr	Pro	Ala	Glu	His	Arg	His	Phe	Met	Pro	Glu	Cys	Ala	Arg
			405						410					415	
Ser	Asp	Ile	Glu	Asn	Cys	Thr	Gln	Glu	Gln	Leu	Val	Asn	Thr	Tyr	Asp
		420						425					430		
Asn	Thr	Leu	Arg	Tyr	Thr	Asp	Tyr	Val	Leu	Ala	Glu	Met	Ile	Glu	Lys
	435					440						445			
Leu	Lys	Asn	Tyr	Ser	Asp	Gln	Tyr	Asn	Thr	Val	Leu	Leu	Tyr	Val	Ser
	450				455						460				
Asp	His	Gly	Glu	Ser	Leu	Gly	Glu	Ser	Gly	Leu	Tyr	Leu	His	Gly	Thr
465					470				475						480
Pro	Tyr	Lys	Leu	Ala	Pro	Asp	Gln	Gln	Thr	His	Ile	Pro	Met	Gln	Val
			485						490					495	
Trp	Met	Ser	Pro	Gly	Phe	Ile	Ala	Gly	Lys	His	Ile	Asn	Met	Ser	Cys
		500					505						510		
Leu	Glu	Asn	Ala	Ala	Lys	Lys	Ser	Tyr	Ser	His	Asp	Asn	Leu	Phe	
	515					520					525				
Ser	Ser	Ile	Leu	Gly	Leu	Trp	Asp	Val	Ser	Thr	Ser	Val	Tyr	Asn	Pro
	530				535						540				
Asp	Arg	Asp	Leu	Phe	Arg	Glu	Cys	Arg	Gly						
545					550						555				

<210> 6695

<211> 246

<212> PRT

<213> Enterobacter cloacae

<400> 6695

Thr	Tyr	His	Pro	Leu	Leu	Leu	Met	Glu	Leu	His	Met	Asn	Pro	Phe	Lys
1				5					10					15	
Gly	Arg	His	Phe	Gln	Arg	Asp	Ile	Ile	Leu	Trp	Ala	Val	Arg	Trp	Tyr
		20						25					30		
Cys	Lys	Tyr	Gly	Ile	Ser	Tyr	Arg	Glu	Leu	Gln	Glu	Met	Leu	Ala	Glu
	35					40						45			
Arg	Gly	Val	Asn	Val	Asp	His	Ser	Thr	Ile	Tyr	Arg	Trp	Val	Gln	Arg
	50				55						60				
Tyr	Ala	Pro	Glu	Met	Glu	Lys	Arg	Leu	Arg	Trp	Tyr	Trp	Arg	Asn	Pro
65				70					75					80	
Ser	Asp	Leu	Cys	Pro	Trp	His	Met	Asp	Glu	Thr	Tyr	Val	Lys	Val	Asn
			85					90						95	
Gly	Arg	Trp	Ala	Tyr	Leu	Tyr	Arg	Ala	Val	Asp	Ser	Arg	Gly	Arg	Thr
	100						105						110		
Val	Asp	Phe	Tyr	Leu	Ser	Ser	Arg	Arg	Asn	Ser	Lys	Ala	Ala	Tyr	Arg
	115					120						125			
Phe	Leu	Gly	Lys	Ile	Leu	Asn	Asn	Val	Lys	Lys	Trp	Gln	Ile	Pro	Arg
130					135						140				
Phe	Ile	Asn	Thr	Asp	Lys	Ala	Pro	Ala	Tyr	Gly	Arg	Ala	Leu	Ala	Leu

145		150		155		160									
Leu	Lys	Arg	Glu	Gly	Arg	Cys	Pro	Ser	Asp	Val	Glu	His	Arg	Gln	Ile
			165						170					175	
Lys	Tyr	Arg	Asn	Val	Ile	Glu	Cys	Asp	His	Gly	Lys	Leu	Lys	Arg	
		180					185					190			
Ile	Ile	Gly	Ala	Thr	Leu	Gly	Phe	Lys	Ser	Met	Lys	Thr	Ala	Tyr	Ala
		195				200					205				
Thr	Ile	Lys	Gly	Ile	Glu	Val	Met	Arg	Ala	Leu	Arg	Lys	Gly	Gln	Ala
	210				215					220					
Ser	Ala	Phe	Tyr	Tyr	Gly	Asp	Pro	Leu	Gly	Glu	Met	Arg	Leu	Val	Ser
225					230					235					240
Arg	Val	Phe	Glu	Met											
				245											

<210> 6696

<211> 273

<212> PRT

<213> Enterobacter cloacae

<400> 6696

Thr	Trp	Tyr	Glu	Ser	Ala	Ala	Leu	Ser	Ser	Arg	Gly	Arg	Pro	Gln	Arg
1				5					10					15	
Tyr	Ser	Asp	Leu	Ala	Ile	Thr	Thr	Val	Leu	Val	Ile	Lys	Arg	Val	Phe
		20					25					30			
Arg	Leu	Thr	Leu	Arg	Ala	Ala	Gln	Gly	Phe	Ile	Asp	Ser	Ile	Phe	Ser
	35					40					45				
Leu	Met	Asn	Val	Pro	Leu	Arg	Cys	Pro	Asp	Tyr	Ser	Cys	Val	Ser	Arg
	50				55					60					
Arg	Ala	Lys	Ser	Val	Asn	Val	Ser	Phe	Lys	Thr	Pro	Thr	Arg	Gly	Glu
65				70					75						80
Ile	Ala	His	Leu	Val	Ile	Asp	Ser	Thr	Gly	Leu	Lys	Val	Phe	Gly	Glu
		85				90							95		
Gly	Glu	Trp	Lys	Val	Lys	Lys	His	Gly	Gln	Glu	Arg	Arg	Arg	Ile	Trp
	100					105						110			
Arg	Lys	Leu	His	Leu	Ala	Val	Asp	Ser	Lys	Thr	His	Glu	Ile	Ile	Cys
	115				120					125					
Ala	Asp	Leu	Ser	Leu	Asn	Asn	Val	Thr	Asp	Ser	Glu	Ala	Phe	Pro	Gly
	130				135					140					
Leu	Ile	Arg	Gln	Thr	His	Arg	Lys	Ile	Arg	Ser	Ala	Ala	Ala	Asp	Gly
145				150					155						160
Ala	Tyr	Asp	Thr	Arg	Leu	Cys	His	Asp	Glu	Leu	Arg	His	Lys	Lys	Ile
		165						170					175		
Ser	Ala	Leu	Ile	Pro	Pro	Arg	Lys	Gly	Ala	Gly	Tyr	Trp	Pro	Gly	Glu
	180						185						190		
Tyr	Ala	Asp	Arg	Asn	Arg	Ala	Val	Ala	Asn	Gln	Arg	Met	Thr	Gly	Ser
	195					200					205				
Asn	Ala	Arg	Trp	Lys	Trp	Thr	Thr	Asp	Tyr	Asn	Arg	Arg	Ser	Ile	Ala
	210				215					220					
Glu	Thr	Ala	Met	Tyr	Arg	Val	Lys	Gln	Leu	Phe	Gly	Gly	Ser	Leu	Thr
225				230					235						240
Leu	Arg	Asp	Tyr	Asp	Gly	Gln	Val	Ala	Glu	Ala	Met	Ala	Leu	Val	Arg
		245						250					255		
Ala	Leu	Asn	Lys	Met	Thr	Lys	Ala	Gly	Met	Pro	Glu	Ser	Val	Arg	Ile
		260						265					270		
Ala															

<210> 6697

<211> 246

<212> PRT

<213> Enterobacter cloacae

<400> 6697

Thr	Tyr	His	Pro	Leu	Leu	Met	Glu	Leu	His	Met	Asn	Pro	Phe	Lys
1				5				10					15	
Gly	Arg	His	Phe	Gln	Arg	Asp	Ile	Ile	Leu	Trp	Ala	Val	Arg	Tyr
			20				25					30		
Cys	Lys	Tyr	Gly	Ile	Ser	Tyr	Arg	Glu	Leu	Gln	Glu	Met	Leu	Ala
		35					40					45		
Arg	Gly	Val	Asn	Val	Asp	His	Ser	Thr	Ile	Tyr	Arg	Trp	Val	Gln
	50					55					60			
Tyr	Ala	Pro	Glu	Met	Glu	Lys	Arg	Leu	Arg	Trp	Tyr	Trp	Arg	Asn
65					70					75				80
Ser	Asp	Leu	Cys	Pro	Trp	His	Met	Asp	Glu	Thr	Tyr	Val	Lys	Val
				85					90					95
Gly	Arg	Trp	Ala	Tyr	Leu	Tyr	Arg	Ala	Val	Asp	Ser	Arg	Gly	Arg
			100					105					110	
Val	Asp	Phe	Tyr	Leu	Ser	Ser	Arg	Arg	Asn	Ser	Lys	Ala	Ala	Tyr
		115					120					125		
Phe	Leu	Gly	Lys	Ile	Leu	Asn	Asn	Val	Lys	Lys	Trp	Gln	Ile	Pro
	130					135					140			
Phe	Ile	Asn	Thr	Asp	Lys	Ala	Pro	Ala	Tyr	Gly	Arg	Ala	Leu	Ala
145					150					155				160
Leu	Lys	Arg	Glu	Gly	Arg	Cys	Pro	Ser	Asp	Val	Glu	His	Arg	Gln
				165					170					175
Lys	Tyr	Arg	Asn	Asn	Val	Ile	Glu	Cys	Asp	His	Gly	Lys	Leu	Lys
			180					185					190	
Ile	Ile	Gly	Ala	Thr	Leu	Gly	Phe	Lys	Ser	Met	Lys	Thr	Ala	Tyr
		195					200					205		
Thr	Ile	Lys	Gly	Ile	Glu	Val	Met	Arg	Ala	Leu	Arg	Lys	Gly	Gln
	210					215						220		
Ser	Ala	Phe	Tyr	Tyr	Gly	Asp	Pro	Leu	Gly	Glu	Met	Arg	Leu	Val
					230					235				240
Arg	Val	Phe	Glu	Met										
				245										

<210> 6698

<211> 333

<212> PRT

<213> Enterobacter cloacae

<400> 6698

Phe	Ser	Val	Leu	Val	Ser	Val	Gly	Arg	Ile	Leu	Gly	Gly	Gly	Glu
1				5					10					15
Ala	Ser	Ala	Asp	Gly	Met	Arg	Phe	Val	Thr	Pro	Val	Lys	Thr	Val
			20					25					30	
Ser	Gly	Pro	Asn	Arg	Lys	Tyr	Phe	Gly	Ser	Gly	Arg	Gly	Ile	Thr
		35					40					45		
Tyr	Asn	Phe	Val	Ser	Asp	Gln	Tyr	Ser	Gly	Phe	His	Gly	Ile	Val
	50					55					60			
Pro	Gly	Thr	Leu	Arg	Asp	Ser	Ile	Phe	Val	Leu	Glu	Gly	Leu	Leu
65					70					75				80
Gln	Gln	Thr	Gly	Leu	Asn	Pro	Val	Glu	Ile	Met	Thr	Asp	Thr	Ala
				85					90					95
Thr	Ser	Asp	Ile	Ile	Phe	Gly	Leu	Phe	Trp	Leu	Leu	Gly	Tyr	Gln
			100					105					110	
Ser	Pro	Arg	Leu	Ala	Asp	Ala	Gly	Glu	Ala	Val	Phe	Trp	Arg	Ala
		115					120					125		
Lys	Ala	Ala	Asn	Tyr	Gly	Ala	Leu	Asp	Lys	Leu	Ala	Arg	Gly	Cys
	130					135					140			
Asp	Leu	Ser	Lys	Ile	Glu	Ser	His	Trp	Asp	Glu	Met	Met	Arg	Val
145					150					155				160

Gly	Ser	Leu	Lys	Leu	Gly	Thr	Ile	His	Ala	Ser	Glu	Leu	Ile	Arg	Ser
				165					170					175	
Leu	Leu	Arg	Ser	Thr	Arg	Pro	Ser	Gly	Leu	Ala	Gln	Ala	Ile	Met	Glu
			180					185					190		
Val	Gly	Arg	Val	Asn	Lys	Thr	Leu	Tyr	Leu	Leu	Asn	Tyr	Ile	Asp	Asp
		195					200					205			
Glu	Asp	Tyr	Arg	Arg	Arg	Ile	Leu	Thr	Gln	Leu	Asn	Arg	Gly	Glu	Gly
	210					215					220				
Arg	His	Ala	Val	Ala	Arg	Ala	Ile	Cys	Tyr	Gly	Gln	Arg	Gly	Glu	Ile
225					230					235					240
Arg	Lys	Arg	Tyr	Arg	Glu	Gly	Gln	Glu	Asp	Gln	Leu	Gly	Ala	Leu	Gly
				245					250					255	
Leu	Val	Thr	Asn	Ala	Val	Val	Leu	Trp	Asn	Thr	Leu	Tyr	Met	Gln	Glu
			260					265					270		
Ala	Leu	Ser	His	Leu	Arg	Ser	Ile	Gly	Glu	Gly	Pro	Glu	Asp	Glu	His
		275					280					285			
Ile	Ala	Arg	Leu	Ser	Pro	Leu	Met	His	Gly	His	Ile	Asn	Met	Leu	Gly
	290					295					300				
His	Tyr	Thr	Phe	Thr	Leu	Pro	Glu	Asp	Ile	Met	Lys	Gly	Glu	Leu	Arg
305					310					315					320
Pro	Leu	Asn	Leu	Asn	Leu	Asn	Asn	Glu	Leu	Ser	Pro				
				325					330						

<210> 6699

<211> 716

<212> PRT

<213> Enterobacter cloacae

<400> 6699

His	Ser	Val	Pro	Phe	Trp	Val	Val	Ser	Lys	Leu	Ile	Thr	Phe	Glu	Thr
1				5					10					15	
Val	Lys	Lys	Arg	Thr	Glu	His	Pro	Phe	Thr	Lys	Gly	Cys	Val	Met	Ala
			20					25					30		
Ala	Asp	Phe	Leu	Thr	Asp	Lys	Gln	Thr	Gln	Asn	Tyr	Gly	Arg	Tyr	Ala
		35					40					45			
Ala	Glu	Pro	Asn	Glu	Ile	Gln	Leu	Ala	Arg	Tyr	Phe	His	Leu	Asp	Glu
	50					55					60				
Arg	Asp	Leu	Thr	Phe	Ile	Asn	Leu	Arg	Arg	Gly	Arg	His	Asn	Arg	Leu
65					70					75				80	
Gly	Ile	Ala	Leu	Gln	Leu	Thr	Thr	Ala	Arg	Phe	Leu	Gly	Thr	Phe	Leu
				85					90					95	
Ser	Asp	Leu	Met	Gln	Ile	Pro	Pro	Gly	Val	Gln	Phe	Tyr	Val	Ala	Arg
		100						105					110		
Gln	Leu	Asn	Ile	Arg	Tyr	Pro	Glu	Ile	Ile	Ser	Arg	Tyr	Ala	Gln	Arg
		115					120					125			
Glu	Asn	Thr	Arg	Trp	Glu	His	His	Gly	Leu	Ile	Arg	Gln	His	Tyr	Ser
	130					135					140				
Tyr	His	Asp	Phe	Gly	Asp	Phe	Pro	Trp	Ser	Phe	Arg	Leu	Lys	Arg	Leu
145					150					155					160
Leu	Tyr	Thr	Arg	Ala	Trp	Leu	Ser	Asn	Glu	Arg	Pro	Gly	Leu	Met	Phe
				165					170					175	
Asp	Phe	Ala	Thr	Ala	Trp	Leu	Leu	Gln	Asn	Lys	Val	Leu	Leu	Pro	Ala
		180						185					190		
Ala	Ser	Thr	Leu	Thr	Arg	Val	Ile	Gly	Glu	Ile	Arg	Glu	Arg	Ala	Thr
		195					200					205			
Arg	Arg	Leu	Trp	Arg	Lys	Leu	Ala	Ala	Leu	Pro	Asn	Arg	Trp	Gln	Thr
	210					215						220			
Ala	Gln	Leu	Ala	Gly	Leu	Leu	Glu	Ile	Pro	Glu	Gly	Gln	Arg	Leu	Ser
225					230					235					240
Val	Met	Glu	His	Leu	Lys	Arg	Gly	Pro	Val	Thr	Ile	Ser	Gly	Pro	Ala
				245					250					255	

Phe Thr Glu Ala Leu Glu Arg Tyr Thr Arg Leu Arg Ser Leu Glu Phe
 260 265 270
 Ser Cys Leu Asn Phe Thr Gly Leu Pro Ala Ile Gln Leu Arg Asn Leu
 275 280 285
 Ala Arg Tyr Ala Gly Met Ala Ser Val Lys Tyr Ile Ser Arg Met Pro
 290 295 300
 Glu Glu Arg Arg Leu Ala Ile Leu Thr Ala Phe Val Lys Ala Gln Glu
 305 310 315 320
 Ile Ser Ala Leu Asp Glu Ala Val Asp Val Leu Asp Met Leu Ile Leu
 325 330 335
 Asn Ile Thr Arg Glu Ala Lys Lys Thr Gly Gln Lys Lys Arg Leu Arg
 340 345 350
 Thr Leu Lys Asp Leu Asp Arg Ala Ala Leu Leu Leu Ala Arg Ala Cys
 355 360 365
 Ala Leu Leu Leu Asp Glu Asp Thr Ala Asp Asp Leu Leu Arg Lys Thr
 370 375 380
 Ile Phe Ser Ser Val Ser Val Ala Arg Leu Ala Glu Ser Val Glu Lys
 385 390 395 400
 Val Asn Glu Leu Ala Arg Pro Gln Asp Thr Asn Phe Gln Asp Glu Met
 405 410 415
 Val Glu Gln Tyr Gly Arg Val Arg Arg Phe Leu Pro Ala Leu Leu Arg
 420 425 430
 Asp Leu His Phe Arg Ala Ala Pro Asp Gly Glu His Thr Leu Ala Ala
 435 440 445
 Ile His Tyr Leu Ala Glu Leu Asn Gly Ser Lys Lys Arg Ile Leu Asp
 450 455 460
 Asp Ala Pro Glu His Ile Ile Ser Gly Pro Trp Lys Arg Leu Val Tyr
 465 470 475 480
 Asp Ala Asp Gly Arg Ile Gln Arg Ala Gly Tyr Ser Leu Cys Leu Leu
 485 490 495
 Glu Arg Leu Gln Asp Ala Leu Arg Arg Asp Ile Trp Leu Glu Asn
 500 505 510
 Ser Asp Arg Trp Gly Asp Pro Arg Gln Lys Leu Leu Gln Gly Glu Glu
 515 520 525
 Trp Gln Ala Gln Arg Val Pro Val Cys Arg Ala Leu Gly His Pro Thr
 530 535 540
 Asn Gly Ser Lys Ala Ser Glu Gln Leu Ala Ala Gln Leu Asp Glu Thr
 545 550 555 560
 Trp Lys Thr Val Ala Ser Arg Phe Asp Arg Asn Thr Ala Val Asp Ile
 565 570 575
 Cys Asn Glu Gly Lys His Pro Ser Leu Thr Ile Ser Ser Leu Asp Lys
 580 585 590
 Leu Asp Glu Pro Pro Ala Leu Ile Gln Leu Ser Ser Arg Val Arg Gln
 595 600 605
 Leu Leu Pro Pro Val Asp Leu Thr Glu Leu Leu Leu Glu Ile Asp Ala
 610 615 620
 Arg Thr Gly Phe Thr Arg Glu Phe Ser His Val Ser Glu Ser Gly Ala
 625 630 635 640
 Arg Ala Gln Asp Leu His Ile Ser Leu Cys Ala Val Met Leu Ala Glu
 645 650 655
 Ala Cys Asn Ile Gly His Glu Pro Leu Ile Lys His Asn Ile Pro Ala
 660 665 670
 Leu Thr Arg His Arg Leu Ser Trp Val Lys Gln Asn Tyr Ile Arg Ala
 675 680 685
 Glu Thr Leu Val Ser Ala Asn Ala Arg Leu Val Asp Phe Gln Ser Ser
 690 695 700
 Leu Ala Leu Ala Gly Tyr Trp Gly Ala Gly Arg
 705 710 715

<210> 6700

<211> 197

<212> PRT

<213> Enterobacter cloacae

<400> 6700

Ala	Glu	Gly	Ile	Thr	Met	Gln	Arg	Leu	Phe	Pro	Ala	Leu	Trp	Val	Val
1				5					10					15	
Leu	Phe	Leu	Val	Val	Ser	Pro	Leu	His	Ala	Glu	Pro	Lys	Val	Tyr	Gly
			20					25					30		
Glu	Gln	Arg	Ile	His	Arg	Trp	Trp	Asp	Ala	Val	Thr	Asp	Asp	Ile	Ala
		35					40					45			
Gln	Thr	Trp	Glu	Gln	Pro	Asp	Arg	Tyr	Asp	Leu	Tyr	Leu	Pro	Phe	Leu
	50					55					60				
Ser	Trp	His	Ala	Arg	Phe	Met	Tyr	Asp	Lys	Glu	Lys	Thr	Asp	Asn	Tyr
65					70					75				80	
Asn	Glu	Met	Pro	Trp	Gly	Gly	Gly	Leu	Gly	Val	Ser	Arg	Tyr	Asn	Asp
			85						90					95	
Glu	Gly	Asn	Trp	Ser	Ala	Leu	Phe	Ala	Met	Met	Phe	Lys	Asp	Ser	His
			100					105					110		
Asn	Glu	Trp	Gln	Pro	Ala	Met	Gly	Tyr	Gly	Trp	Glu	Lys	Gly	Trp	Phe
		115					120					125			
Leu	Asp	Asn	Ala	Lys	Asp	Phe	Arg	Leu	Gly	Leu	Gly	Ala	Ala	Ala	Gly
	130					135					140				
Ile	Thr	Ala	Arg	Asp	Asp	Phe	Ala	Asn	Tyr	Val	Pro	Leu	Pro	Phe	Ile
145					150					155					160
Phe	Pro	Leu	Phe	Ser	Ala	Gly	Tyr	Lys	Arg	Val	Thr	Val	Gln	Phe	Thr
				165					170					175	
Tyr	Ile	Pro	Gly	Thr	Tyr	Asn	Asn	Gly	Asn	Val	Leu	Phe	Ala	Trp	Leu
			180					185					190		
Arg	Leu	Gly	Phe												
			195												

<210> 6701

<211> 905

<212> PRT

<213> Enterobacter cloacae

<400> 6701

Lys	Glu	Pro	Glu	Glu	Gly	Thr	Met	Ile	Thr	Glu	Lys	Pro	His	Arg	Pro
1				5					10					15	
Tyr	Tyr	Gln	Gln	Thr	Val	Asp	Glu	Thr	Leu	Thr	Asn	Ile	Gln	Ser	Ser
			20					25					30		
Leu	Asp	Gly	Leu	Ser	Ser	Thr	Glu	Ala	Thr	Ala	Arg	Leu	Glu	Lys	Tyr
		35					40					45			
Gly	Glu	Asn	Ala	Leu	Pro	Gln	Lys	Pro	Gly	Lys	Pro	Gly	Trp	Leu	Arg
		50				55					60				
Phe	Leu	Ala	His	Phe	Asn	Asp	Val	Leu	Ile	Tyr	Val	Leu	Leu	Ala	Ala
65					70					75				80	
Ala	Leu	Leu	Lys	Leu	Ile	Met	Gly	His	Trp	Val	Asp	Met	Phe	Val	Ile
				85					90					95	
Leu	Gly	Val	Ala	Ile	Ile	Asn	Ala	Leu	Ile	Gly	His	Ile	Gln	Glu	Ser
			100					105					110		
Asn	Ala	Glu	Lys	Ser	Leu	Gln	Ser	Ile	Arg	Asn	Met	Leu	Ser	Ser	Glu
		115					120					125			
Ala	Val	Val	Ile	Arg	Gln	Gly	Asn	His	Glu	Thr	Ile	Pro	Thr	Thr	Ala
	130					135					140				
Leu	Val	Pro	Gly	Asp	Ile	Val	Val	Ile	Arg	Ala	Gly	Asp	Arg	Ile	Pro
145					150					155					160
Ala	Asp	Leu	Arg	Val	Ile	Glu	Ala	His	Asn	Leu	Arg	Val	Glu	Glu	Ala
				165					170					175	
Ile	Leu	Thr	Gly	Glu	Ser	Thr	Val	Val	Glu	Lys	Ser	Ser	Asp	Val	Leu
			180					185					190		

Ser	Gly	Glu	Leu	Pro	Leu	Gly	Asp	Arg	Tyr	Asn	Leu	Leu	Tyr	Ser	Gly
		195					200					205			
Thr	Thr	Val	Ser	Ser	Gly	Gly	Gly	Lys	Gly	Leu	Val	Val	Ala	Thr	Gly
		210				215					220				
Gly	Glu	Thr	Glu	Leu	Gly	His	Ile	Asn	Gln	Met	Met	Ser	Asp	Ile	Glu
225					230					235					240
Lys	His	Arg	Thr	Pro	Leu	Met	Val	Gln	Met	Asp	Lys	Leu	Gly	Lys	Thr
				245					250					255	
Ile	Phe	Ile	Thr	Ile	Leu	Val	Met	Met	Leu	Ala	Leu	Phe	Val	Phe	Ser
			260				265						270		
Leu	Ile	Phe	Arg	Asp	Met	Pro	Val	Ser	Glu	Leu	Val	Leu	Ser	Leu	Ile
		275					280					285			
Ser	Leu	Ala	Val	Ala	Ala	Val	Pro	Glu	Gly	Leu	Pro	Ala	Ile	Ile	Ser
		290				295					300				
Ile	Ile	Leu	Ser	Leu	Gly	Val	Gln	Ala	Met	Ala	Arg	Arg	Lys	Ala	Ile
305					310					315					320
Ile	Arg	Lys	Leu	Pro	Thr	Val	Glu	Thr	Leu	Gly	Ala	Met	Thr	Val	Ile
				325					330					335	
Cys	Ser	Asp	Lys	Thr	Gly	Thr	Leu	Thr	Met	Asn	Glu	Met	Thr	Val	Lys
			340					345					350		
Ala	Val	Ile	Thr	Ala	Asp	Thr	Thr	Tyr	Arg	Val	Glu	Gly	Asp	Ser	Tyr
		355					360					365			
Glu	Pro	Val	Gly	Ala	Ile	His	Pro	Val	Asp	Asp	Pro	Thr	Pro	Val	Thr
		370				375					380				
Val	Thr	Gln	Gly	Ser	Val	Leu	Glu	Arg	Tyr	Leu	Arg	Thr	Val	Asp	Leu
385					390					395					400
Cys	Asn	Asp	Ser	Gln	Leu	Ile	Lys	Asp	Glu	Gln	Gly	Leu	Trp	Lys	Ile
				405					410					415	
Thr	Gly	Gly	Pro	Thr	Glu	Gly	Ala	Leu	Lys	Val	Leu	Ala	Ala	Lys	Ile
			420					425					430		
Pro	Leu	Pro	Thr	Ile	Asp	Ala	Glu	Leu	Arg	Ser	Lys	Ile	Pro	Phe	Asp
		435					440					445			
Ser	Gln	Tyr	Lys	Tyr	Met	Ser	Thr	Leu	Tyr	His	Leu	Gly	Asp	Glu	Glu
		450				455					460				
Val	Met	Leu	Ile	Thr	Gly	Ala	Pro	Asp	Val	Leu	Phe	Arg	Leu	Cys	Gln
465					470					475					480
His	Gln	Gln	Thr	Gln	Asn	Gly	Leu	Glu	Pro	Phe	Asn	Leu	His	Tyr	Trp
				485					490					495	
Glu	Glu	Lys	Ile	Glu	Glu	Tyr	Ala	Arg	Glu	Gly	Leu	Arg	Met	Val	Ala
			500					505					510		
Ala	Ala	Trp	Lys	Pro	Ala	Ala	Ser	Gly	Gln	Arg	Glu	Leu	Thr	His	Ala
		515					520					525			
Asp	Leu	Gln	Glu	Gly	Val	Ile	Leu	Leu	Gly	Ile	Ala	Gly	Met	Met	Asp
		530				535					540				
Pro	Pro	Arg	Pro	Glu	Ala	Ile	Ser	Ala	Ile	Ala	Asp	Cys	Leu	Gln	Ala
545					550					555					560
Gly	Ile	Arg	Val	Lys	Met	Ile	Thr	Gly	Asp	His	Pro	Gln	Thr	Ala	Met
				565					570					575	
Ser	Ile	Gly	Gln	Met	Leu	Gly	Ile	Gly	Asn	Ala	Ala	Ser	Ala	Ile	Thr
			580					585					590		
Gly	Arg	Glu	Leu	Glu	Ala	Met	Asp	Asp	His	Gln	Leu	Ser	Glu	Ala	Ala
		595					600					605			
Gln	Lys	Tyr	Asp	Ile	Phe	Ala	Arg	Thr	Ser	Pro	Glu	Asp	Lys	Phe	Arg
		610				615					620				
Leu	Val	Gln	Ala	Leu	Gln	Ser	Lys	Gln	Glu	Val	Val	Gly	Met	Thr	Gly
625					630					635					640
Asp	Gly	Val	Asn	Asp	Ala	Pro	Ala	Leu	Lys	Arg	Ala	Asp	Val	Gly	Ile
				645					650					655	
Ala	Met	Gly	Ile	Lys	Gly	Thr	Glu	Val	Thr	Lys	Glu	Ala	Ala	Asp	Met
			660					665				670			
Val	Leu	Thr	Asp	Asp	Asn	Phe	Ala	Thr	Ile	Ala	Arg	Ala	Val	His	Glu

	675					680					685				
Gly	Arg	Arg	Val	Tyr	Asp	Asn	Leu	Lys	Lys	Thr	Ile	Leu	Phe	Val	Ile
	690					695					700				
Pro	Ser	Asn	Ile	Ala	Gln	Ala	Leu	Leu	Ile	Ile	Ile	Ala	Leu	Leu	Ala
705					710					715					720
Gly	Asn	Leu	Ile	Pro	Leu	Thr	Pro	Val	Leu	Ile	Leu	Trp	Met	Asn	Met
				725					730					735	
Ala	Thr	Ser	Ala	Thr	Leu	Ser	Phe	Gly	Leu	Ala	Phe	Glu	Ala	Gly	Glu
			740					745				750			
Lys	Asp	Ile	Met	Asn	Arg	Pro	Pro	Arg	Lys	Ser	Asn	Leu	His	Val	Met
	755						760					765			
Asp	Gly	Tyr	Ala	Ile	Trp	Arg	Val	Val	Phe	Val	Gly	Leu	Met	Ile	Ala
	770					775					780				
Ile	Ser	Ala	Phe	Val	Met	Glu	Ala	Trp	Leu	Gln	Pro	Arg	Gly	Tyr	Ser
785					790					795					800
Pro	Glu	Ile	Ile	Arg	Thr	Val	Leu	Leu	Gln	Thr	Val	Val	Thr	Ala	Gln
				805					810					815	
Trp	Phe	Tyr	Met	Leu	Asn	Cys	Arg	Val	Thr	Asp	Gly	Phe	Ser	Leu	Ser
			820					825					830		
Lys	Gly	Leu	Leu	Ala	Asn	Lys	Gly	Ile	Trp	Ile	Val	Ser	Gly	Val	Leu
	835						840					845			
Met	Ala	Leu	Gln	Leu	Leu	Ile	Ile	Tyr	Ala	Pro	Phe	Met	Gln	Met	Leu
	850					855					860				
Phe	Gly	Thr	Glu	Ala	Leu	Pro	Phe	Arg	Tyr	Trp	Ile	Ile	Thr	Cys	Leu
865					870					875					880
Ile	Gly	Phe	Ala	Met	Phe	Met	Ile	Val	Glu	Ala	Glu	Lys	Val	Phe	Thr
				885					890					895	
Arg	Arg	Trp	Arg	Thr	Thr	Lys	Arg								
			900					905							

<210> 6702

<211> 180

<212> PRT

<213> Enterobacter cloacae

<400> 6702

His	Pro	Phe	Leu	Phe	Ser	Val	Lys	Gly	Ile	His	Ala	Cys	Thr	His	Gly
1				5					10					15	
Val	Asp	Ala	Ile	Ser	Pro	Asp	Ser	Leu	Thr	Val	Val	Leu	Val	Ile	Lys
			20					25					30		
Arg	Met	Leu	Asp	Met	Tyr	Lys	Thr	Ile	Leu	Val	Pro	Val	Asp	Val	Tyr
		35					40					45			
Glu	Thr	Ala	Leu	Ser	Asp	Lys	Ala	Leu	Gln	His	Ala	Gln	Phe	Leu	Ala
	50					55					60				
Gln	Ser	Ala	Ser	Gly	Asn	Val	His	Leu	Leu	Tyr	Val	Met	Pro	Lys	Phe
65					70					75					80
Ser	Ala	Glu	Leu	Thr	Arg	Gly	Phe	Ile	Ala	Asp	Ala	Arg	Lys	Met	Asp
				85				90						95	
Glu	Tyr	Met	Ile	Asn	Asn	Ala	Lys	Glu	Lys	Leu	Ala	Ala	Leu	Val	Lys
			100					105					110		
Lys	Ile	Asn	Leu	Pro	Glu	Ala	Asn	Val	His	Leu	His	Val	Arg	Ser	Gly
		115					120					125			
Asn	Ile	Arg	Asp	Glu	Val	Ile	Lys	Leu	Ala	Asp	Glu	Leu	Asn	Val	Gly
	130					135					140				
Ala	Ile	Ile	Val	Gly	Ser	Arg	Asn	Pro	Asn	Ile	Gln	Thr	His	Leu	Leu
145					150					155					160
Gly	Ser	Glu	Ala	Ala	Ser	Ile	Val	Arg	Tyr	Ala	His	Val	Pro	Val	Phe
				165					170					175	
Val	Ile	Arg													

180

<210> 6703
 <211> 238
 <212> PRT
 <213> Enterobacter cloacae

<220>
 <221> UNSURE
 <222> (238)

<400> 6703

Val	Gln	Asn	Thr	Met	Ile	Arg	Phe	Ala	Ser	Phe	Val	Phe	Thr	Leu	Gly
1				5					10					15	
Ile	Leu	Val	Pro	Ala	Ala	Ser	Ala	Val	Thr	Tyr	Pro	Leu	Pro	Pro	Glu
			20					25					30		
Gly	Ser	Arg	Leu	Val	Gly	Ala	Pro	Ile	Thr	Ile	Thr	Val	Pro	Glu	Gly
		35					40					45			
Asn	Thr	Leu	Pro	Leu	Glu	Ala	Phe	Ala	Ala	Gln	His	Gly	Gln	Gly	Leu
	50					55					60				
Ser	Asn	Met	Leu	Glu	Ala	Asn	Pro	Gly	Val	Asp	Pro	Phe	Leu	Pro	Arg
65					70					75					80
Ala	Gly	Thr	Gln	Leu	Ala	Val	Pro	Gln	Gln	Leu	Ile	Leu	Pro	Pro	Thr
			85					90						95	
Val	Arg	Glu	Gly	Ile	Val	Val	Asn	Val	Ala	Glu	Met	Arg	Leu	Tyr	Tyr
			100					105					110		
Tyr	Pro	Pro	Gly	Ser	Asn	Thr	Val	Glu	Val	Leu	Pro	Ile	Gly	Ile	Gly
		115					120					125			
Gln	Ala	Gly	Arg	Glu	Thr	Pro	Arg	Asn	Trp	Val	Thr	Ala	Val	Glu	Arg
		130				135					140				
Lys	Gln	Glu	Gly	Pro	Thr	Trp	Ser	Pro	Thr	Pro	Asn	Thr	Arg	Arg	Ala
145					150					155					160
Tyr	Ala	Lys	Glu	Gly	Lys	Thr	Leu	Pro	Ala	Phe	Val	Pro	Ala	Gly	Pro
			165					170						175	
Asp	Asn	Pro	Met	Gly	Leu	Tyr	Ala	Leu	Tyr	Ile	Gly	Arg	Leu	Tyr	Ala
			180					185					190		
Ile	His	Gly	Thr	Asn	Ser	Asn	Phe	Gly	Ile	Gly	Leu	Arg	Val	Ser	Gln
		195					200					205			
Gly	Cys	Ile	Arg	Leu	Arg	Asn	Asn	Asp	Ile	Lys	Tyr	Leu	Phe	Asp	Asp
	210					215					220				
Val	Ser	Phe	Ser	Pro	Gly	Ser	Ala	Gly	Ser	Gly	Ile	Ile	Xaa		
225					230					235					

<210> 6704
 <211> 370
 <212> PRT
 <213> Enterobacter cloacae

<400> 6704

Asn	Asn	Tyr	Tyr	Gln	Gly	Asn	Thr	Val	Lys	Arg	Tyr	Leu	Ser	Leu	Leu
1				5					10					15	
Pro	Val	Val	Leu	Leu	Leu	Leu	Thr	Ala	Cys	Asp	Pro	Lys	Ser	Asp	Arg
			20					25					30		
Ala	Ala	Pro	Leu	Pro	Lys	Met	Val	Lys	Val	Ala	Glu	Val	Val	Lys	Ala
		35					40					45			
Gly	Asn	Ala	Gln	Gln	Arg	Val	Phe	Pro	Ala	Arg	Ile	Glu	Ser	Gly	Asp
	50					55					60				
Ala	Thr	Asp	Leu	Ala	Phe	Lys	Arg	Ala	Gly	Gln	Ile	Glu	Thr	Leu	Asp
65					70					75					80
Ile	Arg	Gln	Gly	Ala	Val	Val	Lys	Gln	Gly	Gln	Arg	Leu	Ala	Ser	Leu
			85					90						95	
Asn	Asp	Arg	Glu	Ala	Arg	Gln	Arg	Leu	Asn	Asp	Arg	Gln	Thr	Ala	Ala
			100					105					110		

Thr Leu Ala Gln Arg Gln Phe Asp Arg Phe Gln Thr Leu Ala Gly Arg
 115 120 125
 Gln Ala Val Ser Lys Ala Glu Met Asp Val Gln Arg Ala Asn Arg Asp
 130 135 140
 Ser Ala Asn Ala Ala Leu Gln Ile Ala Arg Glu Glu Leu Ser Gln Met
 145 150 155 160
 Thr Leu Val Ala Pro Phe Ser Gly Thr Ala Ala Ser Val His Val Arg
 165 170 175
 Asn His Gln Val Val Ser Ala Gly Gln Pro Val Val Thr Leu Thr Arg
 180 185 190
 Thr Asp Leu Leu Asp Val Val Phe Ser Leu Pro Glu Asn Leu Phe Asn
 195 200 205
 Thr Phe Asp Ile Arg Asn Ala Gln Tyr Lys Pro Val Val Arg Ile Asn
 210 215 220
 Ala Leu Pro Gly Arg Glu Phe Thr Ala Val Tyr Lys Glu His Ser Gly
 225 230 235 240
 Ser Ser Asp Ser Asn Thr Leu Thr Trp Gln Val Ile Leu Thr Met Pro
 245 250 255
 Arg Pro Asp Asp Phe Pro Val Val Gly Gly Val Ser Gly Thr Val Thr
 260 265 270
 Ile Asn Leu Thr Asn Leu Pro Ala Gly Val Gly Ser Glu Ala Leu Val
 275 280 285
 Val Pro Val Glu Ala Val Phe Asn Pro Asp Asn His Pro Arg Asn Glu
 290 295 300
 Pro His Val Trp Val Val Thr Gly Glu Gly Asp Thr Leu His Leu Glu
 305 310 315 320
 Asp Arg Lys Val Ser Val Gly Gln Val Ser Ala Glu Gly Val Ile Ile
 325 330 335
 Val Gly Gly Leu Lys Ala Gly Glu Arg Val Val Ala Ala Gly Val Gly
 340 345 350
 Glu Leu His Pro Asn Gln Pro Val Arg Ile Trp Thr Arg Glu Arg Gly
 355 360 365
 Leu
 370

<210> 6705

<211> 159

<212> PRT

<213> Enterobacter cloacae

<400> 6705

Val Val Ser Ala Val Ile Thr Ala Phe Thr Val Ile Ser Phe Met Val
 1 5 10 15
 Arg Val Pro Val Leu Ser Glu Gln Ile Thr Val Ile Ala Pro Ser Val
 20 25 30
 Ser Thr Val Gly Ser Leu Arg Ile Ile Ala Leu Arg Arg Ala Ile Ala
 35 40 45
 Cys Thr Pro Ser Glu Arg Met Ile Glu Ile Met Ala Gly Asn Pro Ser
 50 55 60
 Gly Thr Ala Ala Thr Ala Arg Leu Ile Ser Asp Ser Thr Ser Ser Glu
 65 70 75 80
 Thr Gly Ile Ser Arg Lys Met Arg Leu Lys Thr Asn Ser Ala Ser Ile
 85 90 95
 Ile Thr Arg Met Val Ile Lys Met Val Leu Pro Ser Leu Ser Ile Cys
 100 105 110
 Thr Ile Asn Gly Val Arg Cys Phe Ser Met Ser Asp Ile Ile Trp Leu
 115 120 125
 Ile Trp Pro Ser Ser Val Ser Pro Pro Val Ala Thr Thr Ser Pro Phe
 130 135 140
 Pro Pro Pro Glu Leu Thr Val Val Pro Glu Tyr Ser Arg Leu
 145 150 155

<210> 6706

<211> 448

<212> PRT

<213> *Enterobacter cloacae*

<400> 6706

Leu	Lys	Ile	Ser	Thr	Asp	Arg	Thr	Thr	Met	Asp	Ser	Thr	Leu	Ile	Ser
1				5					10					15	
Ala	Arg	Arg	Asn	Glu	Glu	Thr	Pro	Ser	Leu	Asn	Arg	Ala	Arg	Arg	Ala
			20					25					30		
Ala	Leu	Gly	Ser	Phe	Ala	Gly	Ala	Val	Val	Asp	Trp	Tyr	Asp	Phe	Leu
		35					40					45			
Leu	Tyr	Gly	Ile	Thr	Ala	Ala	Leu	Val	Phe	Asn	Arg	Glu	Phe	Phe	Pro
	50					55					60				
Gln	Ile	Ser	Pro	Ala	Met	Gly	Thr	Leu	Ala	Ala	Phe	Ala	Thr	Phe	Gly
65					70					75					80
Val	Gly	Phe	Leu	Phe	Arg	Pro	Leu	Gly	Gly	Ile	Ile	Phe	Gly	His	Phe
				85					90					95	
Gly	Asp	Arg	Leu	Gly	Arg	Lys	Arg	Met	Leu	Met	Leu	Thr	Val	Trp	Met
			100					105					110		
Met	Gly	Ile	Ala	Thr	Ala	Leu	Ile	Gly	Ile	Leu	Pro	Ser	Phe	Ala	Ser
		115					120					125			
Ile	Gly	Trp	Trp	Ala	Pro	Val	Leu	Leu	Val	Thr	Leu	Arg	Ala	Ile	Gln
	130					135					140				
Gly	Phe	Ala	Val	Gly	Gly	Glu	Trp	Gly	Gly	Ala	Ala	Leu	Leu	Ser	Val
145					150					155					160
Glu	Ser	Ala	Pro	Lys	Asn	Lys	Lys	Ala	Phe	Tyr	Ser	Ser	Gly	Val	Gln
				165					170					175	
Val	Gly	Tyr	Gly	Val	Gly	Leu	Leu	Leu	Ser	Thr	Gly	Leu	Val	Ser	Leu
			180					185					190		
Ile	Ser	Gln	Leu	Thr	Thr	Asp	Glu	Gln	Phe	Leu	Ser	Trp	Gly	Trp	Arg
		195					200					205			
Ile	Pro	Phe	Ile	Phe	Ser	Ile	Val	Leu	Val	Val	Val	Ala	Leu	Trp	Ile
	210					215					220				
Arg	Asn	Gly	Met	Glu	Glu	Ser	Ala	Glu	Phe	Glu	Arg	Gln	Gln	Arg	Glu
225					230					235					240
Lys	Pro	Val	Ala	Lys	Lys	Arg	Leu	Pro	Val	Met	Glu	Ala	Leu	Val	Gln
				245					250					255	
His	Pro	Gly	Ala	Phe	Leu	Lys	Ile	Ile	Ala	Leu	Arg	Leu	Cys	Glu	Leu
			260					265					270		
Leu	Thr	Met	Tyr	Ile	Val	Thr	Ala	Phe	Ala	Leu	Asn	Tyr	Ser	Thr	Gln
		275					280					285			
Asn	Leu	Gly	Leu	Pro	Arg	Glu	Leu	Phe	Leu	Asn	Ile	Gly	Leu	Val	Val
	290					295					300				
Gly	Gly	Ile	Ser	Cys	Leu	Thr	Ile	Pro	Cys	Phe	Ala	Trp	Leu	Ala	Asp
305					310					315					320
Arg	Phe	Gly	Arg	Arg	Arg	Val	Tyr	Ile	Thr	Gly	Ala	Leu	Ile	Gly	Thr
				325					330					335	
Leu	Ser	Ala	Trp	Pro	Phe	Phe	Met	Ala	Leu	Glu	Ala	Gln	Ser	Val	Phe
		340						345					350		
Trp	Ile	Val	Phe	Phe	Ala	Ile	Met	Leu	Ala	Asn	Ile	Ala	His	Asp	Met
		355					360					365			
Val	Val	Cys	Val	Gln	Gln	Pro	Met	Phe	Thr	Glu	Leu	Phe	Gly	Ala	Ser
	370					375					380				
Tyr	Arg	Tyr	Ser	Gly	Ala	Gly	Val	Gly	Tyr	Gln	Val	Ala	Ser	Val	Val
385					390					395					400
Gly	Gly	Gly	Phe	Thr	Pro	Phe	Ile	Ala	Ala	Ala	Leu	Val	Thr	Phe	Ser
				405					410					415	
Gly	Gly	Asn	Trp	His	Ser	Val	Ala	Ile	Tyr	Leu	Leu	Ala	Gly	Cys	Leu
			420					425					430		

Leu Ser Ala Ala Thr Ala Leu Leu Met Lys Glu Thr Ala His Ser
 435 440 445

<210> 6707

<211> 1025

<212> PRT

<213> Enterobacter cloacae

<400> 6707

Thr Gly Thr Ile Met Asp Ile Ser Arg Gln Phe Ile Ser Asn Pro Val
 1 5 10 15
 Arg Val Trp Leu Thr Ile Leu Leu Leu Gly Val Gly Gly Ile Ala
 20 25 30
 Leu Leu Asn Ile Gly Arg Leu Glu Asp Pro Ala Phe Thr Ile Lys Thr
 35 40 45
 Ala Val Val Ile Thr His Tyr Pro Gly Ala Ser Ala Gln Gln Val Glu
 50 55 60
 Glu Glu Val Thr Leu Pro Leu Glu Asn Ala Leu Gln Gln Leu Pro Tyr
 65 70 75 80
 Leu Asp Asn Val Ser Ser Ile Ser Ser Ser Gly Leu Ser Gln Ile Thr
 85 90 95
 Val Asn Ile Ala Ser Arg Tyr His Ser Asn Ala Leu Pro Gln Ile Trp
 100 105 110
 Asp Glu Leu Arg Arg Arg Val Gly Asp Ala Ala Arg Gln Phe Pro Pro
 115 120 125
 Gly Val Val Thr Pro Phe Val Asn Asp Asp Phe Gly Asp Val Phe Gly
 130 135 140
 Phe Phe Phe Ala Ile Ser Gly Asp Glu Phe Ser Asn Pro Glu Leu Val
 145 150 155 160
 Arg Tyr Ala Glu Gln Leu Arg Arg Glu Leu Val Leu Val Pro Gly Val
 165 170 175
 Gly Lys Val Ala Ile Gly Gly Ala Leu Thr Gln Gln Ile Asn Val Asp
 180 185 190
 Ile Ser Leu Ser Lys Met Ala Ala Arg Gly Ile Thr Leu Asn Gln Leu
 195 200 205
 Ser Ala Gln Leu Ser Arg Leu Asn Val Val Ser Ser Ala Gly Glu Ile
 210 215 220
 Pro Ser Gly Thr Glu Ser Ile Arg Leu His Pro Thr Gly Glu Phe Glu
 225 230 235 240
 Ser Ile Asp Glu Leu Ala Asp Leu Ile Val Thr Pro Pro Gly Val Gly
 245 250 255
 Ala Ala Thr Arg Leu Arg Asp Ile Ala Thr Leu Ser Arg Gly Leu Asp
 260 265 270
 Ala Ser Pro Ala Ser Ile Tyr His Ala Asn Gly Lys Glu Ala Val Thr
 275 280 285
 Met Gly Val Ser Phe Ile Pro Gly Val Asn Val Ile Asp Val Gly His
 290 295 300
 Ala Leu Glu Ala Lys Leu Glu Gln Met Ser Ala Glu Lys Pro Ala Gly
 305 310 315 320
 Ile His Ile Asp Leu Phe Tyr Asp Gln Ala Ala Glu Val Gly His Ser
 325 330 335
 Val Asn Gly Phe Ile Ile Asn Phe Val Met Ala Leu Ala Ile Val Val
 340 345 350
 Gly Val Leu Leu Ile Phe Met Gly Leu Arg Ser Gly Ile Ile Ile Ala
 355 360 365
 Phe Ser Leu Ala Leu Asn Val Leu Gly Thr Leu Leu Ile Met Tyr Leu
 370 375 380
 Trp Gly Ile Glu Leu Gln Arg Ile Ser Leu Gly Ala Leu Ile Ile Ala
 385 390 395 400
 Leu Ser Met Leu Val Asp Asn Ala Ile Val Ile Val Glu Gly Val Leu
 405 410 415

Ile	Ala	Arg	Gln	Gln	Gly	Ser	Ser	Leu	Met	Asn	Ala	Ile	Ser	Asn	Ile
			420					425					430		
Ile	Arg	Arg	Ser	Ala	Leu	Pro	Leu	Leu	Gly	Ala	Thr	Val	Ile	Ala	Ile
		435					440					445			
Leu	Ala	Phe	Ala	Pro	Val	Gly	Leu	Ser	Gln	Asp	Ser	Thr	Gly	Glu	Tyr
	450					455				460					
Cys	Lys	Ser	Leu	Phe	Gln	Val	Leu	Leu	Ile	Ser	Leu	Met	Leu	Ser	Trp
465					470					475					480
Phe	Ser	Ala	Leu	Thr	Ile	Thr	Pro	Val	Leu	Ile	Lys	Trp	Trp	Leu	Phe
				485					490					495	
Lys	Arg	Asp	Ala	Ala	Pro	Pro	Glu	Ala	Asp	Glu	Thr	Asp	Pro	Tyr	Asp
			500					505					510		
Lys	Arg	Ile	Tyr	Arg	Ile	Tyr	Gln	Ala	Val	Leu	Asn	Ala	Leu	Leu	Arg
		515					520					525			
Arg	Lys	Ala	Pro	Thr	Leu	Val	Val	Met	Ala	Ala	Leu	Leu	Ala	Ala	Ala
	530					535					540				
Ile	Trp	Gly	Phe	Gly	Ser	Val	Arg	Gln	Asn	Phe	Phe	Pro	Ser	Ser	Ser
545					550					555					560
Thr	Pro	Ile	Phe	Phe	Val	Asp	Leu	Trp	Leu	Pro	Tyr	Gly	Thr	Asp	Ile
				565					570					575	
Lys	Trp	Thr	Glu	Lys	Met	Thr	Ser	Asp	Ile	Glu	Lys	Thr	Ile	Asn	Gly
			580					585					590		
Gln	Pro	Gly	Val	Glu	Thr	Thr	Val	Ser	Thr	Ile	Gly	Gln	Gly	Ser	Met
		595					600					605			
Arg	Phe	Ile	Leu	Thr	Tyr	Ser	Gly	Gln	Arg	Gln	Tyr	Ser	Asn	Tyr	Ala
	610					615					620				
Gln	Ile	Met	Val	Arg	Met	Asp	Asp	Gln	Arg	Asn	Ile	Pro	Ala	Leu	Thr
625					630					635					640
Arg	His	Val	Asp	Glu	Tyr	Ile	Ala	Arg	Asn	Tyr	Pro	Gln	Val	Asn	Ala
				645					650					655	
Ser	Thr	Lys	Arg	Val	Met	Phe	Gly	Pro	Ser	Gly	Asp	Ser	Ala	Ile	Glu
			660				665						670		
Val	Arg	Ile	Lys	Gly	Pro	Asp	Pro	Asp	Arg	Leu	Arg	Leu	Ile	Ala	Ser
		675					680					685			
Gln	Val	Asp	Asn	Ile	Leu	Thr	Arg	Asp	Pro	Ala	Thr	Asp	Ser	Val	Arg
	690					695					700				
Asn	Asp	Trp	Gln	Asn	Arg	Ser	Lys	Val	Ile	Arg	Pro	Gln	Tyr	Ile	Thr
705					710					715					720
Ala	Leu	Gly	Arg	Glu	Leu	Gly	Val	Asp	Lys	Gln	Asp	Val	Asp	Asn	Ala
				725					730					735	
Leu	Glu	Met	Asn	Phe	Ser	Gly	Ser	Arg	Ala	Gly	Leu	Tyr	Arg	Glu	Gly
			740					745					750		
Ser	Asp	Leu	Leu	Pro	Val	Val	Val	Arg	Pro	Pro	Glu	Ser	Glu	Arg	Leu
		755					760					765			
Asp	Ala	Asn	His	Leu	Asn	Asn	Val	Leu	Val	Trp	Ser	Gln	Thr	Arg	Gln
	770				775						780				
Gln	Tyr	Ile	Pro	Leu	Ser	Asn	Val	Val	Ser	Gly	Phe	Ala	Leu	Glu	Trp
785					790					795					800
Glu	Asp	Pro	Leu	Ile	Leu	Arg	Arg	Asp	Arg	Ser	Arg	Val	Leu	Thr	Val
			805						810					815	
Gln	Thr	Asp	Pro	Asp	Pro	Leu	Ser	Gln	Gln	Thr	Ser	Gly	Asp	Ile	Leu
			820					825					830		
Ala	Arg	Val	Lys	Pro	Gln	Ile	Asp	Ala	Leu	Pro	Leu	Pro	His	Gly	Tyr
		835					840					845			
Ser	Ile	Glu	Trp	Gly	Gly	Asp	Ala	Glu	Asn	Ser	Ser	Glu	Ala	Gln	Gln
	850					855					860				
Gly	Leu	Phe	Thr	Thr	Leu	Pro	Ile	Gly	Tyr	Leu	Val	Met	Phe	Val	Ile
865					870					875					880
Thr	Val	Leu	Met	Phe	Ser	Ser	Val	Lys	Asn	Ala	Val	Ala	Ile	Trp	Leu
				885					890					895	
Thr	Val	Pro	Leu	Ala	Leu	Ile	Gly	Val	Thr	Pro	Gly	Phe	Leu	Ile	Thr

1025

<211> 517

<213> Enterobacter cloacae

Arg 1	Lys	Pro	Arg	Thr 5	Ala	Asp	Leu	Leu	Thr 10	Phe	Val	Ser	Gln	Ala 15	Cys
Asp	Ile	Leu	Ser 20	Gly	Lys	Ala	Ala	His 25	Leu	Trp	Asn	Lys	Glu 30	Thr	Asp
Met	Asn	Asn 35	Lys	Gly	Ser	Ser	Leu 40	Thr	Pro	Ala	Gln	Ala 45	Leu	Glu	Lys
Leu	Asp 50	Ala	Leu	Tyr	Glu	Gln 55	Ser	Val	Asn	Ala 60	Leu	Arg	Ser	Ala	Ile
Ser 65	Asp	Tyr	Ile	Glu 70	Thr	Gly	Lys	Leu	Pro	Asp 75	Glu	Lys	Ala	Arg	Thr 80
Gln	Gly	Leu	Phe 85	Val	Tyr	Pro	Ser	Leu	Ser 90	Val	Thr	Trp	Asp	Gly 95	Ser
Ala	Ser	Ser 100	Asn	Pro	Lys	Thr	Arg	Ala 105	Tyr	Ala	Arg	Phe	Thr	His	Ser
Gly	Cys	Tyr 115	Ser	Thr	Thr	Ile	Thr 120	Arg	Pro	Ala	Leu	Phe 125	Arg	Pro	Tyr
Leu	Glu 130	Glu	Gln	Leu	Thr	Leu 135	Leu	Tyr	Gln	Asp 140	Tyr	Gly	Ala	His	Ile
Ser 145	Val	Glu	Pro	Ser 150	Leu	His	Glu	Ile	Pro	Tyr 155	Pro	Tyr	Val	Ile	Asp 160
Gly	Ser	Ala	Leu 165	Thr	Leu	Asp	Arg	Ser	Met 170	Ser	Ala	Gly	Leu	Thr 175	Arg
His	Phe	Pro 180	Thr	Thr	Glu	Leu	Ser 185	Gln	Ile	Gly	Asp	Glu	Thr 190	Ala	Asp
Gly	Ile 195	Tyr	His	Pro	Ala	Glu	Phe 200	Ser	Pro	Leu	Ser	His 205	Phe	Asp	Ala
Arg	Arg 210	Val	Asp	Phe	Ser	Leu 215	Ala	Arg	Leu	Arg	His 220	Tyr	Thr	Gly	Thr
Pro 225	Ala	Glu	His	Phe 230	Gln	Pro	Phe	Val	Leu	Phe 235	Thr	Asn	Tyr	Thr	Arg 240
Tyr	Val	Asp	Glu 245	Phe	Val	Arg	Trp	Gly	Cys 250	Ser	Gln	Ile	Leu	Ala 255	Pro
Asp	Ser	Pro	Tyr 260	Val	Ala	Leu	Ser	Cys 265	Ala	Gly	Gly	Ile	Trp 270	Ile	Thr
Ala	Glu 275	Thr	Glu	Ala	Pro	Glu	Glu 280	Ala	Ile	Ser	Asp	Leu 285	Ala	Trp	Lys
Lys	His	Gln	Met	Pro	Ala	Trp	His	Leu	Ile	Thr	Ala	Asp	Gly	Gln	Gly

290		295		300
Ile Thr Leu Ile Asn	Ile Gly Val Gly Pro Ser	Asn Ala Lys Thr Ile		
305	310	315		320
Cys Asp His Leu Ala	Val Leu Arg Pro Asp Val	Trp Leu Met Ile Gly		
	325	330		335
His Cys Gly Gly Leu	Arg Glu Ser Gln Leu Ile	Gly Asp Tyr Val Leu		
	340	345		350
Ala His Ala Tyr Leu	Arg Asp Asp His Val Leu	Asp Ala Val Leu Pro		
	355	360		365
Pro Asp Ile Pro Ile	Pro Ser Ile Ala Glu Val	Gln Arg Ala Leu Tyr		
	370	375		380
Asp Ala Thr Lys Glu	Val Ser Gly Met Pro Gly	Glu Glu Val Lys Gln		
385	390	395		400
Arg Leu Arg Thr Gly	Thr Val Val Thr Thr	Asp Asp Arg Asn Trp Glu		
	405	410		415
Leu Arg Tyr Ser Ala	Ser Ala Leu Arg Phe	Asn Leu Ser Arg Ala Val		
	420	425		430
Ala Ile Asp Met Glu	Ser Ala Thr Ile Ala	Ala Gln Gly Tyr Arg Phe		
	435	440		445
Arg Val Pro Tyr Gly	Thr Leu Leu Cys Val Ser	Asp Asn Pro Leu His		
	450	455		460
Gly Glu Ile Lys Leu	Pro Gly Gln Ala Asn	Arg Phe Tyr Glu Gly Ala		
465	470	475		480
Ile Ser Glu His Leu	Gln Ile Gly Ile Arg	Ala Ile Asp Leu Leu Arg		
	485	490		495
Ala Glu Gly Asp Lys	Leu His Ser Arg Lys	Leu Arg Thr Phe Asn Glu		
	500	505		510
Pro Pro Phe Arg				
515				

<210> 6709

<211> 180

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (180)

<400> 6709

Arg Val Leu Lys His	Ile Ile Leu Thr Ala	Ile Cys Ala Leu Leu Asn
1	5	10
Leu Tyr Ala Lys Lys	Phe Arg Cys Pro Asp	Val Leu Thr Ser Ile Leu
	20	25
Ser Met Phe Thr Leu	Val Pro Asp Phe Ser	Pro His Ser Pro Gly Ser
	35	40
Leu Thr Met Thr Arg	Lys Gln Ala Thr Ile	Ala Val Arg Ser Gly Leu
	50	55
Asn Asp Asp Glu Gln	Tyr Gly Cys Val Val	Pro Pro Ile His Leu Ser
65	70	75
Ser Thr Tyr Asn Phe	Thr Gly Phe Asn Glu	Pro Arg Ala His Asp Tyr
	85	90
Ser Arg Arg Gly Asn	Pro Thr Arg Asp Val	Thr Gln Arg Ala Leu Ala
	100	105
Glu Leu Glu Gly Gly	Ala Gly Ala Val Leu	Thr Asn Thr Gly Met Ser
	115	120
Ala Ile His Leu Val	Thr Thr Val Phe Leu	Lys Pro Gly Asp Leu Leu
	130	135
Val Ala Pro His Glu	Cys Tyr Gly Gly His	Tyr Pro Leu Phe Asp Ile
145	150	155
Pro Ala Asn Thr Gly	Phe Tyr Leu Val Phe	Leu Pro Pro Ser Ser Ile

Tyr Thr Thr Xaa
165
180

170

175

<210> 6710
<211> 104
<212> PRT
<213> Enterobacter cloacae

<400> 6710
Pro Thr Ser Val Asn Leu Val Ala Ser Thr Leu Met Asn Gly Ala Leu
1 5 10 15
Ala Ser Leu Ala Arg Arg Arg Ala Ile Ser Val Leu Pro Thr Pro Val
20 25 30
Gly Pro Ile Ile Arg Ile Phe Phe Gly Val Thr Ser Trp Arg Ser Ser
35 40 45
Ser Ser Ser Cys Met Arg Arg Gln Arg Leu Arg Ser Ala Ile Ala Thr
50 55 60
Glu Arg Leu Ala Leu Ser Trp Pro Ile Met Cys Leu Phe Ser Ser Leu
65 70 75 80
Thr Ile Ser Arg Gly Val Ile Ser Asp Met Gly Asp Pro Tyr Ala Leu
85 90 95
Asp Gly Asn Ser Ser Met Val
100

<210> 6711
<211> 74
<212> PRT
<213> Enterobacter cloacae

<400> 6711
Gly Ser Pro Met Lys Lys Asp Ile His Pro Lys Tyr Glu Met Ile Thr
1 5 10 15
Ala Asn Cys Ser Cys Gly Asn Ser Ile Gln Ile Arg Ser Thr Val Gly
20 25 30
His Asp Leu Asn Leu Asp Val Cys Gly Lys Cys His Pro Phe Tyr Thr
35 40 45
Gly Lys Gln Arg Asp Val Ala Thr Gly Gly Arg Val Asp Arg Phe Asn
50 55 60
Lys Arg Phe Ser Ile Pro Gly Ala Lys
65 70

<210> 6712
<211> 255
<212> PRT
<213> Enterobacter cloacae

<400> 6712
Asn Tyr Thr Ala Leu Asp Ile Asn Ser Tyr Leu Pro Phe Gln Gln Arg
1 5 10 15
Trp Leu Ser Gly Cys Ile Tyr Phe Glu Gly Lys Arg Met Lys Leu Lys
20 25 30
Gln Leu Leu Phe Val Leu Pro Leu Leu Ser Cys Ala Ala Gln Ala Gly
35 40 45
Tyr Val Asp Tyr Arg His Glu Tyr Tyr Asp Asp Gly Arg Asn Tyr Asp
50 55 60
Arg Val Tyr Met Ser His Arg Phe Gly Thr Gly Phe Gly Val Ala Val
65 70 75 80
Glu Ala Val Ser Arg Ser Asp Glu Lys Gln Ser Asn Asp Ala Leu Asn
85 90 95
Asn Met Glu Ser Asn Ser Asn Glu Tyr Thr Ala Ser Tyr Gln Phe Thr

Trp	Gln	Gly	Phe	Ile	Trp	Gln	Pro	Gly	Val	Ala	Val	Glu	Met	Gly	Asp
		115					120					125			
Asp	Met	Ala	Ile	Tyr	Lys	Pro	Tyr	Leu	Arg	Val	Gln	Tyr	Asn	Ile	Asn
		130					135				140				
Glu	Ser	Trp	Trp	Thr	Ala	Phe	Arg	Tyr	Arg	Thr	Glu	Tyr	Thr	Arg	Arg
145					150					155					160
Asn	Ala	Asp	Gly	Lys	Asp	Asp	Arg	Leu	Val	Tyr	Arg	Pro	Glu	Met	Trp
				165					170					175	
Leu	Gly	Tyr	Asn	Ile	Asp	Asn	Trp	Met	Phe	Glu	Leu	Asn	Gly	Ile	Tyr
			180					185					190		
Lys	Phe	Ala	Asp	Asn	Glu	Asp	Leu	Tyr	Asn	Asn	Lys	Lys	Glu	Asp	Tyr
		195					200					205			
Glu	Tyr	Asn	Phe	Arg	Val	Ala	Tyr	Asn	Ile	Asp	Ser	Trp	Val	Pro	Phe
		210				215					220				
Val	Glu	Val	Gly	Asn	Val	Ser	Ser	Gly	Tyr	Asn	Thr	Ala	Thr	Thr	Asp
225					230					235					240
Asp	Arg	Gln	Thr	Arg	Leu	Arg	Val	Gly	Leu	Gly	Tyr	Asn	Phe		
				245					250					255	

<210> 6713

<211> 360

<212> PRT

<213> Enterobacter cloacae

<400> 6713

Leu	Ser	Val	Lys	Met	Val	Arg	Ser	Ala	Val	Arg	Cys	Ser	Gly	Glu	Glu
1				5					10					15	
Lys	Thr	Leu	Lys	Ser	Arg	Lys	Glu	Val	Ala	Ser	Ala	Thr	Met	Lys	Asp
			20					25					30		
Val	Ala	Glu	Lys	Ala	Gln	Val	Ser	Thr	Ala	Thr	Val	Ser	Arg	Ala	Leu
		35					40					45			
Met	Asn	Pro	Asp	Lys	Val	Ser	Gln	Ala	Thr	Arg	Asn	Arg	Val	Glu	Lys
	50					55					60				
Ala	Ala	Leu	Glu	Val	Gly	Tyr	Phe	Pro	Gln	Ala	Met	Gly	Arg	Asn	Val
65					70				75					80	
Lys	Arg	Asn	Glu	Ser	Arg	Thr	Ile	Leu	Val	Ile	Val	Pro	Asp	Ile	Cys
				85					90					95	
Asp	Pro	Phe	Phe	Ser	Glu	Ile	Ile	Arg	Gly	Ile	Glu	Val	Thr	Ala	Ala
			100					105					110		
Ala	Gln	Gly	Tyr	Leu	Val	Leu	Ile	Gly	Asp	Cys	Ala	His	Gln	Asn	Gln
		115					120					125			
Gln	Glu	Lys	Thr	Phe	Ile	Asp	Leu	Ile	Ile	Thr	Lys	Gln	Ile	Asp	Gly
	130					135					140				
Met	Leu	Leu	Leu	Gly	Ser	Arg	Leu	Pro	Phe	Asp	Ala	Ser	Ile	Glu	Glu
145				150					155					160	
Gln	Arg	Asn	Leu	Pro	Pro	Met	Val	Met	Ala	Asn	Glu	Phe	Ala	Pro	Glu
				165					170					175	
Leu	Glu	Leu	Pro	Thr	Val	His	Ile	Asp	Asn	Leu	Thr	Ala	Ala	Phe	Asn
			180					185					190		
Ala	Val	Asn	Tyr	Leu	Gln	Glu	Leu	Gly	His	Lys	Arg	Ile	Gly	Cys	Ile
		195					200					205			
Ala	Gly	Pro	Glu	Glu	Met	Pro	Leu	Cys	His	Tyr	Arg	Leu	Gln	Gly	Tyr
	210					215					220				
Val	Gln	Ala	Leu	Arg	Arg	Thr	Gly	Ala	Ile	Val	Asp	Pro	His	Tyr	Ile
225					230					235					240
Ala	Arg	Gly	Asp	Phe	Thr	Phe	Glu	Ala	Gly	Gly	Gln	Ala	Leu	Glu	Lys
				245					250					255	
Leu	Leu	Ala	Leu	Pro	Glu	Pro	Pro	Thr	Ala	Val	Phe	Cys	His	Ser	Asp
			260					265					270		
Val	Met	Ala	Leu	Gly	Ala	Leu	Ser	Tyr	Ala	Lys	Arg	His	Gly	Leu	Arg

	275		280		285										
Val	Pro	Gln	Asp	Leu	Ser	Ile	Ile	Gly	Phe	Asp	Asn	Ile	Ser	Leu	Ser
	290					295					300				
Glu	Phe	Cys	Asp	Pro	Pro	Leu	Ser	Thr	Val	Ala	Gln	Pro	Arg	Tyr	Asp
305					310					315					320
Ile	Gly	Arg	Glu	Ala	Met	Leu	Leu	Leu	Leu	Asp	Gln	Leu	His	Gly	Gln
				325					330					335	
Thr	Val	Ser	Ser	Gly	Ser	Arg	Leu	Leu	Asp	Cys	Glu	Leu	Ile	Val	Arg
			340					345					350		
Gly	Ser	Thr	Gln	Ala	Leu	Thr									
	355						360								

<210> 6714

<211> 153

<212> PRT

<213> Enterobacter cloacae

<400> 6714

Thr	Lys	Cys	Arg	Gly	Thr	Asn	Lys	Pro	Arg	Arg	Ser	Val	Ser	Lys	His
1				5					10					15	
Cys	Ser	Ala	Ser	Val	Arg	Leu	Ser	Ser	Lys	Arg	Asn	Ser	Ser	Ser	Gly
			20					25					30		
Arg	Arg	Arg	Ser	Arg	Tyr	Ser	Ser	Arg	Val	His	Asn	Arg	Ser	Ser	Arg
			35				40					45			
Arg	Val	Pro	Tyr	Lys	Leu	Ser	Leu	Ser	Ser	Ser	Asn	Arg	Arg	Arg	Ser
	50					55					60				
Arg	Arg	Ser	Lys	Arg	His	Ser	Arg	Ile	Arg	Ile	Cys	Cys	Arg	Arg	Leu
65					70				75						80
Arg	Ile	Pro	Leu	Arg	Asn	Ser	Gln	Lys	Arg	Ser	Arg	Leu	Arg	Arg	Ser
				85					90					95	
Pro	Lys	Arg	Pro	Arg	Cys	Arg	Ser	Arg	Arg	Leu	Arg	Lys	Lys	Met	Asn
			100					105					110		
Ala	Ala	Gly	Trp	Phe	Ser	Ala	Val	Arg	Leu	Lys	Ala	Pro	Asn	Arg	Gln
		115					120					125			
Lys	Arg	Cys	Val	Leu	Ser	Trp	His	Leu	Lys	Asp	Leu	Thr	His	Ala	Leu
	130					135					140				
Pro	Pro	Ile	Thr	Ala	Gly	Ile	Ala								
145						150									

<210> 6715

<211> 182

<212> PRT

<213> Enterobacter cloacae

<400> 6715

Pro	Gly	Gly	Leu	Leu	Val	Thr	Thr	Ile	Val	Ser	Val	Arg	Arg	Asn	Gly
1				5					10					15	
Gln	Val	Val	Ile	Ala	Gly	Asp	Gly	Gln	Ala	Thr	Leu	Gly	Asn	Thr	Val
			20					25					30		
Met	Lys	Gly	Asn	Val	Lys	Lys	Val	Arg	Arg	Leu	Tyr	Asn	Asp	Lys	Val
		35					40					45			
Ile	Ala	Gly	Phe	Ala	Gly	Gly	Thr	Ala	Asp	Ala	Phe	Thr	Leu	Phe	Glu
	50					55					60				
Leu	Phe	Glu	Arg	Lys	Leu	Glu	Met	His	Gln	Gly	His	Leu	Val	Lys	Ala
65					70				75						80
Ala	Val	Glu	Leu	Ala	Lys	Asp	Trp	Arg	Thr	Asp	Arg	Met	Leu	Arg	Lys
				85					90					95	
Leu	Glu	Ala	Leu	Leu	Ala	Val	Ala	Asp	Glu	Asn	Ala	Ser	Leu	Ile	Ile
			100					105					110		
Thr	Gly	Asn	Gly	Asp	Val	Val	Gln	Pro	Glu	Asn	Asp	Leu	Ile	Ala	Ile
		115					120					125			

Gly Ser Gly Gly Pro Tyr Ala Gln Ala Ala Ala Arg Ala Leu Leu Glu
 130 135 140
 Asn Thr Asp Met Asn Ala Arg Asp Ile Ala Val Lys Ala Leu Asp Ile
 145 150 155 160
 Ala Gly Asp Ile Cys Ile Tyr Thr Asn His Asn His Thr Ile Glu Glu
 165 170 175
 Leu Pro Ser Lys Ala
 180

<210> 6716

<211> 358

<212> PRT

<213> Enterobacter cloacae

<400> 6716

Gly Ser Pro Met Ser Glu Met Thr Pro Arg Glu Ile Val Ser Glu Leu
 1 5 10 15
 Asn Lys His Ile Ile Gly Gln Asp Asn Ala Lys Arg Ser Val Ala Ile
 20 25 30
 Ala Leu Arg Asn Arg Trp Arg Arg Met Gln Leu Asp Glu Glu Leu Arg
 35 40 45
 His Glu Val Thr Pro Lys Asn Ile Leu Met Ile Gly Pro Thr Gly Val
 50 55 60
 Gly Lys Thr Glu Ile Ala Arg Arg Leu Ala Lys Leu Ala Asn Ala Pro
 65 70 75 80
 Phe Ile Lys Val Glu Ala Thr Lys Phe Thr Glu Val Gly Tyr Val Gly
 85 90 95
 Lys Glu Val Asp Ser Ile Ile Arg Asp Leu Thr Asp Ser Ala Ile Lys
 100 105 110
 Met Val Arg Val Gln Ala Ile Glu Lys Asn Arg Tyr Arg Ala Glu Glu
 115 120 125
 Met Ala Glu Glu Arg Ile Leu Asp Val Leu Ile Pro Pro Ala Lys Asn
 130 135 140
 Asn Trp Gly Gln Ala Glu Gln Gln Ser Glu Pro Ser Ala Ala Arg Gln
 145 150 155 160
 Ala Phe Arg Lys Lys Leu Arg Glu Gly Glu Leu Asp Asp Lys Glu Ile
 165 170 175
 Glu Ile Asp Leu Ala Ala Ala Pro Met Gly Val Glu Ile Met Ala Pro
 180 185 190
 Pro Gly Met Glu Glu Met Thr Ser Gln Leu Gln Ser Met Phe Gln Asn
 195 200 205
 Leu Gly Gly Gln Lys Gln Lys Ala Arg Lys Leu Lys Ile Lys Asp Ala
 210 215 220
 Met Lys Leu Leu Ile Glu Glu Glu Ala Ala Lys Leu Val Asn Pro Glu
 225 230 235 240
 Glu Leu Lys Gln Asp Ala Ile Asp Ala Val Glu Gln His Gly Ile Val
 245 250 255
 Phe Ile Asp Glu Ile Asp Lys Ile Cys Lys Arg Gly Asn Ala Ser Gly
 260 265 270
 Pro Asp Val Ser Arg Glu Gly Val Gln Arg Asp Leu Leu Pro Leu Val
 275 280 285
 Glu Gly Cys Thr Val Ser Thr Lys His Gly Met Val Lys Thr Asp His
 290 295 300
 Ile Leu Phe Ile Ala Ser Gly Ala Phe Gln Ile Ala Ser Pro Ser Asp
 305 310 315 320
 Leu Ile Pro Glu Leu Gln Gly Arg Leu Pro Ile Arg Val Glu Leu Gln
 325 330 335
 Ala Leu Thr Thr Glu Asp Phe Glu Arg Ile Leu Thr Glu Pro Ile Leu
 340 345 350
 Thr Pro Arg Leu Glu Asn
 355

<210> 6717
 <211> 775
 <212> PRT
 <213> Enterobacter cloacae

<400> 6717

Val	Leu	Trp	Arg	Lys	Ile	His	Gln	Arg	Arg	Arg	Ile	Ile	Gln	Asn	Leu
1				5				10					15		
Thr	Asn	Val	Cys	Lys	Leu	Ile	Arg	Thr	Pro	Leu	Ser	Leu	Met	Cys	Ile
			20					25					30		
Leu	Thr	Arg	His	Phe	Ser	Ser	Gln	Glu	Asp	Ser	Met	Pro	Val	Ala	His
		35					40					45			
Val	Ala	Leu	Pro	Val	Pro	Leu	Pro	Arg	Thr	Phe	Asp	Tyr	Leu	Leu	Pro
		50				55					60				
Asp	Ser	Met	Ser	Ala	Lys	Ala	Gly	Cys	Arg	Val	Thr	Val	Pro	Phe	Gly
65					70					75					80
Lys	Gln	Gln	Arg	Val	Gly	Ile	Val	Val	Ser	Val	Ser	Asp	Lys	Ser	Glu
				85					90					95	
Leu	Pro	Leu	Asn	Glu	Leu	Lys	Ser	Val	Val	Glu	Val	Leu	Asp	Ser	Glu
			100					105					110		
Pro	Val	Tyr	Ser	Thr	Ser	Thr	Trp	Arg	Leu	Leu	Leu	Trp	Ala	Ala	Asp
		115					120						125		
Tyr	Tyr	His	His	Pro	Ile	Gly	Asp	Val	Leu	Phe	His	Ala	Leu	Pro	Ile
		130				135					140				
Met	Leu	Arg	Gln	Gly	Lys	Ser	Ala	Ser	His	Ala	Pro	Met	Trp	Tyr	Trp
145					150					155					160
Phe	Ala	Thr	Glu	Gln	Gly	Gln	Ala	Val	Asp	Ile	Asn	Ser	Leu	Lys	Arg
				165					170					175	
Ser	Gln	Lys	Gln	Gln	Gln	Ala	Leu	Ala	Ala	Leu	Arg	Gln	Gly	Lys	Ile
			180					185					190		
Trp	Arg	His	Gln	Val	Asp	Glu	Leu	Glu	Val	Ser	Glu	Thr	Ala	Leu	Gln
		195					200						205		
Ala	Leu	Arg	Lys	Lys	Gly	Leu	Ser	Glu	Leu	Ala	Ser	Glu	Ala	Pro	Ala
		210				215					220				
Leu	His	Asp	Trp	Arg	Asp	Gly	Phe	Ser	Val	Ser	Gly	Asp	Arg	Leu	Arg
225					230					235					240
Leu	Asn	Thr	Glu	Gln	Ala	Thr	Ala	Val	Gly	Ala	Ile	His	Ser	Ala	Ala
				245					250					255	
Asp	Arg	Phe	Ser	Ala	Trp	Leu	Leu	Ala	Gly	Val	Thr	Gly	Ser	Gly	Lys
			260					265					270		
Thr	Glu	Val	Tyr	Leu	Ser	Val	Leu	Glu	Asn	Val	Leu	Ala	Gln	Gly	Lys
		275					280					285			
Gln	Ala	Leu	Val	Met	Val	Pro	Glu	Ile	Gly	Leu	Thr	Pro	Gln	Thr	Ile
		290				295					300				
Ala	Arg	Phe	Arg	Glu	Arg	Phe	Asn	Ala	Pro	Val	Glu	Val	Leu	His	Ser
305					310					315					320
Gly	Leu	Asn	Asp	Ser	Glu	Arg	Leu	Ser	Ala	Trp	Leu	Lys	Ala	Lys	Asn
				325					330					335	
Gly	Glu	Ala	Ala	Ile	Val	Ile	Gly	Thr	Arg	Ser	Ser	Leu	Phe	Thr	Pro
			340					345					350		
Phe	Lys	Asn	Leu	Gly	Val	Ile	Val	Ile	Asp	Glu	Glu	His	Asp	Ser	Ser
		355					360					365			
Tyr	Lys	Gln	Gln	Glu	Gly	Trp	Arg	Tyr	His	Ala	Arg	Asp	Leu	Ala	Val
		370				375					380				
Tyr	Arg	Ala	His	Ser	Glu	Gln	Ile	Pro	Ile	Ile	Leu	Gly	Ser	Ala	Thr
385					390					395					400
Pro	Ala	Leu	Glu	Thr	Leu	His	Asn	Val	Arg	Gln	Arg	Lys	Tyr	His	Met
				405					410					415	
Leu	Arg	Leu	Thr	Arg	Arg	Ala	Gly	Asn	Ala	Arg	Pro	Ala	Ile	Gln	His
			420					425					430		

Val Leu Asp Leu Lys Gly Gln Gln Val Gln Ala Gly Leu Ala Pro Ala
 435 440 445
 Leu Ile Ser Arg Met Arg Gln His Leu Gln Ala Gly Asn Gln Val Ile
 450 455 460
 Leu Phe Leu Asn Arg Arg Gly Phe Ala Pro Ala Leu Leu Cys His Asp
 465 470 475 480
 Cys Gly Trp Ile Ala Glu Cys Pro Arg Cys Asp His Tyr Tyr Thr Phe
 485 490 495
 His Gln Ala Gln Arg His Leu Arg Cys His His Cys Asp Ser Gln Arg
 500 505 510
 Pro Val Pro Arg Gln Cys Pro Ser Cys Gly Ser Thr His Ile Val Pro
 515 520 525
 Val Gly Leu Gly Thr Glu Gln Leu Glu Gln Ala Leu Ala Pro Phe Phe
 530 535 540
 Pro Asp Val Pro Ile Ser Arg Ile Asp Arg Asp Thr Thr Ser Arg Lys
 545 550 555 560
 Gly Ala Leu Glu Gln Gln Leu Ala Glu Val His Arg Gly Gly Ala Arg
 565 570 575
 Ile Leu Ile Gly Thr Gln Met Leu Ala Lys Gly His His Phe Pro Asp
 580 585 590
 Val Thr Leu Val Ala Leu Leu Asp Val Asp Gly Ala Leu Phe Ser Ala
 595 600 605
 Asp Phe Arg Ser Ala Glu Arg Phe Ala Gln Leu Tyr Thr Gln Val Ala
 610 615 620
 Gly Arg Ala Gly Arg Ala Gly Lys Gln Gly Glu Val Val Leu Gln Thr
 625 630 635 640
 His His Pro Glu His Pro Leu Leu Gln Thr Leu Leu His Lys Gly Tyr
 645 650 655
 Asp Ala Phe Ala Asp Gln Ala Leu Ala Glu Arg Gln Thr Met Gln Leu
 660 665 670
 Pro Pro Trp Thr Ser His Val Ile Arg Ala Glu Asp His Asn Asn
 675 680 685
 Gln Gln Ala Pro Leu Phe Leu Gln Gln Leu Arg Asn Leu Leu Gln Ala
 690 695 700
 Ser Pro Leu Val Asp Asn Gln Leu Trp Ile Leu Gly Pro Val Pro Ala
 705 710 715 720
 Leu Ala Pro Lys Arg Gly Gly Arg Phe Arg Trp Gln Leu Leu Leu Gln
 725 730 735
 His Pro Ser Arg Ile Arg Leu Gln Gln Ile Val Ser Gly Thr Leu Ala
 740 745 750
 Leu Ile Asn Thr Leu Pro Glu Ala Arg Lys Val Lys Trp Val Leu Asp
 755 760 765
 Val Asp Pro Ile Glu Gly
 770 775

<210> 6718

<211> 109

<212> PRT

<213> Enterobacter cloacae

<400> 6718

Arg Tyr Leu Met Ala Glu Trp Ser Gly Glu Tyr Ile Ser Pro Tyr Ala
 1 5 10 15
 Glu His Gly Lys Lys Ser Glu Gln Val Lys Lys Ile Thr Val Ser Ile
 20 25 30
 Pro Leu Lys Val Leu Lys Ile Leu Thr Asp Glu Arg Thr Arg Arg Gln
 35 40 45
 Val Asn Asn Leu Arg His Ala Thr Asn Ser Glu Leu Leu Cys Glu Ala
 50 55 60
 Phe Leu His Ala Phe Thr Gly Gln Pro Leu Pro Asn Asp Asp Asp Leu
 65 70 75 80

Arg Lys Glu Arg Ser Asp Glu Ile Pro Glu Glu Ala Lys Val Ile Met
 85 90 95
 Arg Glu Leu Gly Ile Asp Pro Glu Thr Trp Glu Tyr
 100 105

<210> 6719

<211> 332

<212> PRT

<213> Enterobacter cloacae

<400> 6719

Arg Thr Asn Lys Tyr Ser Glu Thr Ile Val Ala Gln Arg Asp Tyr Val
 1 5 10 15
 Arg Arg Gly Gln Pro Ala Pro Ser Arg Arg Lys Lys Ser Ser Ser Lys
 20 25 30
 Ser Lys Gln Arg Ser Leu Ser Ala Val Ser Pro Ala Met Val Ala Ile
 35 40 45
 Ala Ala Ala Val Leu Val Ala Phe Ile Gly Gly Leu Tyr Phe Ile Thr
 50 55 60
 His His Lys Lys Glu Glu Ser Glu Ala Leu Gln Gly Asn Lys Val Val
 65 70 75 80
 Gly Asn Gly Leu Pro Lys Pro Glu Glu Arg Trp Arg Tyr Ile Lys
 85 90 95
 Glu Leu Glu Ser Arg Gln Pro Gly Val Arg Ala Pro Thr Glu Pro Ser
 100 105 110
 Ala Gly Gly Glu Val Lys Asn Ala Asp Gln Leu Thr Asp Glu Gln Arg
 115 120 125
 Gln Leu Leu Ala Gln Met Gln Ala Asp Met Arg Gln Gln Pro Thr Gln
 130 135 140
 Leu Asn Glu Val Pro Trp Asn Glu Gln Thr Pro Ala Gln Arg Gln Gln
 145 150 155 160
 Thr Leu Gln Arg Gln Arg Gln Ala Gln Gln Gln Thr Gln Gln Gln Gln
 165 170 175
 Trp Thr Gln Thr Gln Pro Val Gln Gln Pro Arg Ser Gln Pro Gln Gln
 180 185 190
 Gln Thr Arg Thr Val Gln Thr Gln Pro Val Gln Gln Gln Pro Lys Ala
 195 200 205
 Gln Pro Gln Lys Gln Thr Ala Gln Pro Tyr Gln Asp Leu Leu Gln Thr
 210 215 220
 Pro Ala His Thr Thr Ala Gln Gln Pro Lys Thr Gln Gln Ala Ala Pro
 225 230 235 240
 Val Thr Lys Glu Thr Glu Val Pro Lys Gln Thr Ala Glu Lys Lys Asp
 245 250 255
 Glu Arg Arg Trp Met Val Gln Cys Gly Ser Phe Lys Gly Ala Glu Gln
 260 265 270
 Ala Glu Thr Val Arg Ala Gln Leu Ala Phe Glu Gly Phe Asp Ser Arg
 275 280 285
 Ile Thr Thr Asn Asn Gly Trp Asn Arg Val Val Ile Gly Pro Val Lys
 290 295 300
 Gly Lys Glu Asn Ala Asp Gly Thr Ile Ser Arg Leu Lys Val Ala Gly
 305 310 315 320
 His Thr Asn Cys Ile Arg Leu Ala Ser Gly Gly
 325 330

<210> 6720

<211> 714

<212> PRT

<213> Enterobacter cloacae

<400> 6720

Leu Asn Gly Asp Gln His Ala Gly Leu Leu Val Leu Pro Gly Met Asp

1	5	10	15
Pro Asn Ala Cys His Leu Pro Asp Leu Arg Val Arg Ala Ile Arg Ser			
	20	25	30
His His Gln Leu Tyr Gly Gln Leu Ile Val Val Val Gln Arg Gln Glu			
	35	40	45
Ile Pro Ala Leu Met Thr Met Gln Ala Phe Gln Arg Val Arg His Ala			
	50	55	60
Gln Arg His Leu Arg Val Arg Leu Gln Arg Leu Pro Glu Cys Leu Leu			
	65	70	75
Glu His Val Val Phe His His Ile Ala Gln Ala Arg Gln Phe Gln Leu			
	85	90	95
Gly Gly Ile Lys Arg His Met Ser Ile Phe Pro Leu Pro Gly Phe Glu			
	100	105	110
Thr Ala Val Arg Met Arg Ala His Arg Gln His Arg Leu Pro Asp Ala			
	115	120	125
Gln Pro Ala Lys Gln Ile Asn Arg Gly Arg Ala Asp Gly Gly Asn Thr			
	130	135	140
Tyr Val Arg Leu Ala Gly Arg Ile Glu Cys Arg Arg Ser Arg Leu Phe			
	145	150	155
Asn Asn Gly Tyr Val Lys Ser Leu Leu Arg Gln Pro Gln Arg Gln Cys			
	165	170	175
Ala Ala Asp His Thr Ala Ala Asn Asn Gly Asn Phe Gly Val Gln Glu			
	180	185	190
Cys His Gly His Tyr Ser Leu Leu Lys Asn Thr Leu Ser Leu Pro Asp			
	195	200	205
Phe Cys Gly Pro Glu Val Asp Asn Leu His Thr Gly His Asn Arg Thr			
	210	215	220
Lys Ala Leu Gln Tyr Ala Ala Cys Asn Pro Glu Leu Ser Lys Ser Met			
	225	230	235
Thr Lys Lys Leu His Ile Lys Thr Trp Gly Cys Gln Met Asn Glu Tyr			
	245	250	255
Asp Ser Ser Lys Met Ala Asp Leu Leu Asp Thr Thr His Gly Tyr Gln			
	260	265	270
Leu Thr Glu Asn Ala Lys Glu Ala Asp Val Leu Leu Leu Asn Thr Cys			
	275	280	285
Ser Ile Arg Glu Lys Ala Gln Glu Lys Val Phe His Val Leu Gly Arg			
	290	295	300
Trp Lys Leu Leu Lys Arg Lys Asn Pro Asp Leu Ile Ile Gly Val Gly			
	305	310	315
Gly Cys Val Ala Ser Gln Glu Gly Lys Leu Ile Arg Gln Arg Ala Pro			
	325	330	335
Tyr Val Asp Ile Val Phe Gly Pro Gln Thr Leu His Arg Leu Pro Glu			
	340	345	350
Met Ile Asn Gln Val Arg Gly Ser Arg Ser Pro Val Val Asp Val Ser			
	355	360	365
Phe Pro Glu Ile Glu Lys Phe Asp Arg Leu Pro Glu Pro Arg Ala Asp			
	370	375	380
Gly Pro Thr Ala Phe Val Ser Ile Met Glu Gly Cys Asn Lys Tyr Cys			
	385	390	395
Thr Tyr Cys Val Val Pro Tyr Thr Arg Gly Glu Glu Val Ser Arg Pro			
	405	410	415
Ala Asp Asp Ile Leu Phe Glu Ile Ala Gln Leu Ala Ala Gln Gly Val			
	420	425	430
Arg Glu Val Asn Leu Leu Gly Gln Asn Val Asn Ala Trp Arg Gly Glu			
	435	440	445
Asn Tyr Asp Gly Thr Thr Gly Ser Phe Ala Glu Leu Leu Arg Leu Val			
	450	455	460
Ala Ala Ile Asp Gly Ile Asp Arg Ile Arg Phe Thr Thr Ser His Pro			
	465	470	475
Met Glu Phe Thr Asp Asp Ile Ile Asp Val Tyr Arg Asp Thr Pro Glu			
	485	490	495

Leu Val Ser Phe Leu His Leu Pro Ile Gln Cys Gly Ser Asp Arg Val
 500 505 510
 Leu Asn Leu Met Gly Arg Pro His Thr Val Leu Glu Tyr Lys Ser Thr
 515 520 525
 Ile Arg Lys Leu Arg Glu Ala Arg Pro Asp Ile Gln Ile Ser Ser Asp
 530 535 540
 Phe Ile Val Gly Phe Pro Gly Glu Thr Ala Asp Asp Phe Glu Arg Thr
 545 550 555 560
 Met Lys Leu Ile Gly Glu Val Asn Phe Asp Val Ser Tyr Ser Phe Ile
 565 570 575
 Phe Ser Ala Arg Pro Gly Thr Pro Ala Ala Asp Met Val Asp Asp Val
 580 585 590
 Pro Glu Glu Glu Lys Lys Gln Arg Leu Tyr Ile Leu Gln Glu Arg Ile
 595 600 605
 Asn Gln Gln Ala Asn Ala Trp Ser Arg Arg Met Leu Gly Thr Val Gln
 610 615 620
 Arg Ile Leu Val Glu Gly Thr Ser Arg Lys Ser Ile Met Glu Leu Ser
 625 630 635 640
 Gly Arg Thr Glu Asn Asn Arg Val Val Asn Phe Glu Gly Thr Pro Asp
 645 650 655
 Met Ile Gly Lys Phe Val Asp Val Glu Ile Val Glu Val Leu Thr Asn
 660 665 670
 Ser Leu Arg Gly Lys Val Val Arg Thr Glu Asp Glu Met Gly Leu Arg
 675 680 685
 Ile Ala Gln Thr Pro Glu Ser Val Ile Ser Arg Thr Arg Lys Val Asn
 690 695 700
 Asp Ser Gly Val Gly Ile Tyr Gln Pro
 705 710

<210> 6721

<211> 158

<212> PRT

<213> Enterobacter cloacae

<400> 6721

Thr Glu Met Ser Gln Val Ile Leu Asp Leu Gln Leu Ala Cys Glu Asp
 1 5 10 15
 Asn Ser Gly Met Pro Glu Glu Ala Gln Phe Gln Lys Trp Leu Asp Ala
 20 25 30
 Val Ile Pro Gln Phe Gln Glu Glu Ser Glu Val Thr Ile Arg Leu Val
 35 40 45
 Asp Glu Ala Glu Ser His Glu Leu Asn Leu Thr Tyr Arg Gly Lys Asp
 50 55 60
 Lys Pro Thr Asn Val Leu Ser Phe Pro Phe Glu Ala Pro Pro Gly Ile
 65 70 75 80
 Glu Met Pro Leu Leu Gly Asp Leu Ile Ile Cys Arg Gln Val Val Glu
 85 90 95
 Gln Glu Ala Lys Glu Gln Gln Lys Pro Leu Glu Ala His Trp Ala His
 100 105 110
 Met Val Val His Gly Ser Leu His Leu Leu Gly Tyr Asp His Ile Glu
 115 120 125
 Asp Asp Glu Ala Glu Glu Met Glu Ser Leu Glu Thr Glu Ile Met Leu
 130 135 140
 Ala Leu Gly Tyr Glu Asp Pro Tyr Ile Ala Glu Lys Glu
 145 150 155

<210> 6722

<211> 321

<212> PRT

<213> Enterobacter cloacae

<400> 6722

```

Ser Val Thr Asp Tyr His Ala Ala Ala Gln Gly His Ser Ala Ala Val
1      5      10      15
Asn Val Glu Leu Thr Arg Glu Pro Leu Thr Asn Ala Met Ser Asp Asp
20      25      30
Asn Ser His Ser Ser Asp Thr Thr Thr Thr Lys Lys Gly Phe Phe Ser
35      40      45
Leu Ile Leu Asn Gln Leu Phe His Gly Glu Pro Lys Asn Arg Asp Glu
50      55      60
Leu Leu Glu Leu Ile Arg Asp Ser Gly Gln Asn Asp Leu Ile Asp Glu
65      70      75      80
Asp Thr Arg Glu Met Leu Glu Gly Val Met Asp Ile Ala Asp Gln Arg
85      90      95
Val Arg Asp Ile Met Ile Pro Arg Ser Gln Met Ile Thr Leu Lys Arg
100     105     110
Asn Gln Thr Leu Asp Glu Cys Leu Asp Val Ile Ile Glu Ser Ala His
115     120     125
Ser Arg Phe Pro Val Ile Ser Glu Asp Lys Asp His Ile Glu Gly Ile
130     135     140
Leu Met Ala Lys Asp Leu Leu Pro Phe Met Arg Ser Asp Ala Glu Ala
145     150     155     160
Phe Ser Met Glu Lys Val Leu Arg Pro Ala Val Val Pro Glu Ser
165     170     175
Lys Arg Val Asp Arg Met Leu Lys Glu Phe Arg Ser Gln Arg Tyr His
180     185     190
Met Ala Ile Val Ile Asp Glu Phe Gly Gly Val Ser Gly Leu Val Thr
195     200     205
Ile Glu Asp Ile Leu Glu Leu Ile Val Gly Glu Ile Glu Asp Glu Tyr
210     215     220
Asp Glu Glu Glu Asp Ile Asp Phe Arg Gln Leu Ser Arg His Thr Trp
225     230     235     240
Thr Val Arg Ala Leu Ala Ser Ile Glu Asp Phe Asn Asp Thr Phe Gly
245     250     255
Thr Ser Phe Ser Asp Glu Glu Val Asp Thr Ile Gly Gly Leu Val Met
260     265     270
Gln Ala Phe Gly His Leu Pro Ala Arg Gly Glu Thr Val Asp Ile Asp
275     280     285
Gly Tyr Gln Phe Lys Val Ala Met Ala Asp Ser Arg Arg Ile Ile Gln
290     295     300
Val His Val Arg Met Pro Asp Asp Ser Pro Val Pro Lys Leu Glu Asp
305     310     315     320

```

<210> 6723

<211> 409

<212> PRT

<213> Enterobacter cloacae

<400> 6723

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Val Phe Thr Ser Arg Asp Pro Pro Gly Leu Pro Val Arg Gln Ala Leu
1      5      10      15
Tyr Phe Leu Ser Ser Pro Pro Ile Ser Thr Ala Thr Leu Ala Pro Leu
20      25      30
Phe Cys Gly Val Asn Asn Phe Gly Asn Asp Arg Phe Ile Thr Pro Cys
35      40      45
Gly His Arg Ser Val Asn Gln Leu Lys Arg Asn Ser Leu Asn Ile Asp
50      55      60
Thr Arg Glu Ile Ser Leu Glu Pro Ala Asp Asn Ala Arg Leu Leu Ser
65      70      75      80
Leu Cys Gly Pro Phe Asp Asp Asn Ile Lys Gln Leu Glu Arg Arg Leu

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```
<210> 6724
<211> 256
<212> PRT
<213> Enterobacter cloacae
```

Gln 1	Ala	Cys	Ile	Thr 5	Leu	His	Ser	His	Cys 10	Ala	Arg	Tyr	Asn 15	Asn	Ile
Thr	Met	Gly	Ile 20	Tyr	Ala	Ser	Leu	Ala 25	Leu	Ile	Arg	Lys	Glu 30	Leu	Gly
Met	Gln	Leu	Arg 35	Lys	Leu	Ala	Thr 40	Ala	Met	Leu	Val	Met 45	Gly	Met	Ser
Ala	Gly 50	Val	Val	His	Ala	Glu 55	Asp	Ala	Pro	Ala	Ala 60	Gly	Ser	Thr	Leu
Asp 65	Lys	Ile	Ala	Lys 70	Asn	Gly	Val	Ile	Val 75	Val	Gly	His	Arg	Glu 80	Ser
Ser	Val	Pro	Phe 85	Ser	Tyr	Tyr	Asp	Asn 90	Thr	Gln	Lys	Val	Val 95	Gly	Tyr
Ser	Gln	Asp	Tyr	Ser	Asn	Ala	Ile	Val	Glu	Ala	Val	Lys	Lys	Lys	Leu

```
<210> 6725
<211> 513
<212> PRT
<213> Enterobacter cloacae
```

Met 1	Ala	Phe	Ala	Pro 5	Leu	Val	Glu	Arg	Gln 10	Arg	Val	Arg	Leu	Leu 15	Leu
Ala	Leu	Leu	Leu 20	Gly	Ala	Ser	Gly	Thr 25	Leu	Ala	Phe	Ser	Pro 30	Tyr	Asp
Ile	Trp	Pro 35	Ala	Ala	Ile	Leu	Ser 40	Leu	Met	Gly	Leu	Gln 45	Gly	Leu	Thr
Leu	Asn 50	Arg	Arg	Pro	Val	Gln 55	Ala	Ala	Ala	Ile	Gly 60	Tyr	Phe	Trp	Gly
Leu 65	Gly	Leu	Phe	Gly	Ser 70	Gly	Ile	Asn	Trp	Val 75	Tyr	Val	Ser	Ile	Ala 80
Gln	Phe	Gly	Gly 85	Met	Pro	Gly	Pro	Val	Asn 90	Val	Phe	Leu	Val	Val 95	Leu
Leu	Ala	Ala	Tyr 100	Leu	Ser	Leu	Tyr	Thr 105	Gly	Leu	Phe	Ala	Gly 110	Ile	Leu
Ser	Arg	Leu 115	Trp	Pro	Lys	Thr	Thr 120	Trp	Leu	Arg	Val	Ala 125	Ile	Ala	Ala
Pro	Val 130	Val	Trp	Gln	Ile	Thr 135	Glu	Phe	Leu	Arg	Gly 140	Trp	Val	Leu	Thr
Gly 145	Phe	Pro	Trp	Leu	Gln 150	Phe	Gly	Tyr	Ser	Gln 155	Val	Asp	Gly	Pro	Leu 160
Lys	Gly	Leu	Ala 165	Pro	Val	Met	Gly	Val	Glu 170	Ala	Ile	Asn	Phe	Leu 175	Leu
Met	Ile	Val	Ser 180	Gly	Leu	Leu	Val	Leu 185	Ala	Leu	Val	Thr	Arg 190	Asn	Trp
Lys	Pro	Leu 195	Val	Ala	Ala	Leu	Ile 200	Leu	Phe	Ala	Leu	Pro 205	Phe	Pro	Leu
Arg	Tyr 210	Ile	Gln	Trp	Phe	Thr 215	Leu	Glu	Pro	Ala	Arg 220	Ala	Thr	Gln	Val
Ser 225	Leu	Val	Gln	Gly	Asp 230	Ile	Pro	Gln	Ser	Leu 235	Lys	Trp	Asp	Glu	Asn 240
Gln	Leu	Leu	Asn 245	Thr	Leu	Lys	Ile	Tyr	Ala 250	Asn	Ala	Thr	Glu	Lys 255	Val
Met	Gly	Lys	Ser 260	Gln	Leu	Ile	Ile	Trp 265	Pro	Glu	Ser	Ala	Ile 270	Pro	Asp
Leu	Glu	Ile	Asn	Gln	Gln	Pro	Phe	Leu	Lys	Met	Met	Asp	Asp	Leu	Leu

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<210> 6726
<211> 396
<212> PRT
<213> Enterobacter cloacae
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<400> 6726															
Gly 1	Ile	Val	Thr	Met 5	Thr	Leu	Leu	Asn 10	Thr	Glu	Val	Ala	Val	Val 15	Gly
Gly	Gly	Met	Val	Gly	Gly	Ala	Leu	Ala 25	Leu	Gly	Leu	Ala	Gln 30	Gln	Gly
Phe	Asp	Val	Thr	Val	Ile	Glu	Gln	Ala 40	Ala	Pro	Pro	Ala	Phe 45	Asp	Pro
Ala	Ser	Gln	Pro	Asp	Val	Arg	Ile	Ser 55	Ala	Ile	Ser	Ala	Ala 60	Ser	Val
Asp 65	Leu	Leu	Arg	Gly	Leu	Gly	Val	Trp 70	Glu	Ala	Val	Leu	Ala 75	Met	Arg 80
Ala	His	Pro	Tyr	Ser 85	Arg	Leu	Glu	Thr 90	Trp	Glu	Trp	Glu	Asn 95	Ala	His
Val	Ser	Phe	Asp	Ala	Ala	Glu	Leu	Lys 100	Leu	Pro	Arg	Leu	Gly 110	Tyr	Met
Val	Glu	Asn	Asn	Val	Leu	Gln	Gln	Ala 120	Leu	Trp	Gln	Ala	Leu 125	Glu	Ala
His	Pro	Lys	Val	Thr	Leu	Arg	Val	Pro 135	Asp	Ser	Leu	Lys	Gly 140	Leu	His
Arg 145	His	Glu	Gly	Gly	Tyr	Leu	Leu	Thr 150	Leu	Asp	Asn	Asn	Asp 155	Glu	Leu 160
Ala	Val	Lys	Leu	Val	Gly	Ala	Asp	Gly 170	Ala	Asn	Ser	Gln	Val 175	Arg	
Gln	Met	Ala	Gly	Ile	Gly	Ile	His	Ala	Trp	Gln	Tyr	Gln	Gln	Ser	Cys


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<210> 6727
<211> 99
<212> PRT
<213> Enterobacter cloacae
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```
<210> 6728
<211> 82
<212> PRT
<213> Enterobacter cloacae
```

<400> 6728
Pro Val Leu Gln Ser Ser Met Ala Gly Val Pro Gly Phe Glu Pro Gly
1 5 10 15
Asn Ala Gly Ile Lys Asn Arg Cys Leu Thr Ala Trp Arg Tyr Pro Asn
20 25 30
Thr Ala Glu Asn Arg Met Ile Glu Ile Trp Leu Gly Tyr Leu Asp
35 40 45

Ser Asn Gln Gly Met Pro Val Ser Lys Thr Gly Ala Leu Pro Leu Gly
 50 55 60
 Asp Thr Pro Ser Val Gln Arg Leu Pro Gly Asn Gly Ala Gly Gly Glu
 65 70 75 80
 Thr

<210> 6729

<211> 82

<212> PRT

<213> Enterobacter cloacae

<400> 6729

Ser Lys Lys Tyr Gly Trp Gly Thr Trp Ile Arg Thr Arg Glu Cys Arg
 1 5 10 15
 Tyr Gln Lys Pro Val Pro Tyr Arg Leu Ala Ile Pro His Pro Cys Asn
 20 25 30
 Ala Tyr Leu Gly Met Val Arg Glu Ala Arg Leu Glu Leu Ala His Leu
 35 40 45
 Ala Ala Pro Glu Pro Lys Ser Gly Ala Ser Thr Asn Phe Ala Thr Pro
 50 55 60
 Ala Lys Lys Met Val Ala Thr Thr Gly Phe Glu Pro Val Thr Pro Ser
 65 70 75 80
 Leu

<210> 6730

<211> 126

<212> PRT

<213> Enterobacter cloacae

<400> 6730

Val Met Cys Ser Asn Gln Leu Ser Tyr Val Ala Ser Thr Ala Ile Phe
 1 5 10 15
 Asp Gly Trp Gly Thr Trp Ile Arg Thr Arg Glu Cys Arg Tyr Gln Lys
 20 25 30
 Pro Val Pro Tyr Arg Leu Ala Ile Pro Gln Tyr Arg Gly Glu Pro His
 35 40 45
 Asp Arg Arg Asn Met Ala Gly Val Pro Gly Phe Glu Pro Gly Asn Ala
 50 55 60
 Gly Ile Lys Asn Arg Cys Leu Thr Ala Trp Arg Tyr Pro Ile Arg Ala
 65 70 75 80
 Thr Leu Thr Trp Glu Trp Cys Gly Arg Arg Asp Leu Asn Ser His Thr
 85 90 95
 Leu Arg Arg Gln Asn Leu Asn Leu Val Arg Leu Pro Ile Ser Pro Leu
 100 105 110
 Pro Gln Lys Arg Trp Trp Leu Arg Arg Asp Ser Asn Leu
 115 120 125

<210> 6731

<211> 196

<212> PRT

<213> Enterobacter cloacae

<400> 6731

Phe Phe Cys Arg Lys Tyr Trp Val Lys Asn Met Gln Ile Gly Tyr Val
 1 5 10 15
 Arg Val Ser Thr Asn Asp Gln Asn Thr Asp Leu Gln Arg Gln Ala Leu
 20 25 30
 Glu Arg Ala Gly Cys Glu Gln Val Phe Glu Glu Lys Met Ser Gly Thr
 35 40 45

Val Ala Asn Arg Pro Ala Leu Lys Lys Leu Leu Gln Thr Leu Asn Glu
 50 55 60
 Gly Asp Thr Leu Val Val Trp Lys Leu Asp Arg Leu Gly Arg Ser Met
 65 70 75 80
 Arg Asn Leu Val Leu Val Asp Glu Leu Arg Gln Arg Gly Ile His
 85 90 95
 Phe Lys Ser Leu Thr Asp Ser Ile Asp Thr Ser Ser Pro Met Gly Arg
 100 105 110
 Phe Ile Phe His Ile Met Ser Ala Leu Ala Glu Met Glu Arg Glu Leu
 115 120 125
 Ile Val Glu Arg Thr Arg Ala Gly Leu Ala Ala Ala Arg Glu Lys Gly
 130 135 140
 Arg Ile Gly Gly Arg Arg Pro Lys Leu Thr Pro Glu Gln Trp Ala Gln
 145 150 155 160
 Ala Gly Arg Leu Ile Ala Asn Gly Val Asp Arg Lys Gln Val Ala Ile
 165 170 175
 Ile Tyr Asp Val Ala Val Cys Thr Leu Tyr Lys Lys Phe Pro Ala Ser
 180 185 190
 Lys Pro Ala
 195

<210> 6732

<211> 167

<212> PRT

<213> Enterobacter cloacae

<400> 6732

Thr Val Ala Thr Thr Lys Val Tyr Cys Ala Leu Thr Glu Thr Lys Leu
 1 5 10 15
 Leu Tyr Ile Lys Thr Val Leu Glu Val Cys Val Met Glu Phe Ile Arg
 20 25 30
 Pro Thr Glu Leu Arg Glu Ile Ile Ala Ile Pro Leu Tyr Ser Asp Leu
 35 40 45
 Val Gln Cys Gly Phe Pro Ser Pro Ala Ala Asp Tyr Val Glu Gln Arg
 50 55 60
 Ile Asp Leu Asn Glu Leu Leu Val Ser His Pro Ser Ser Thr Tyr Phe
 65 70 75 80
 Val Lys Ala Ala Gly Asp Ser Met Ile Glu Ala Gly Ile Ser Asp Gly
 85 90 95
 Asp Leu Leu Val Val Asp Ser Ser Arg Thr Val Glu His Gly Asp Ile
 100 105 110
 Val Ile Ala Ala Val Asp Gly Glu Phe Thr Val Lys Arg Leu Gln Leu
 115 120 125
 Arg Pro Thr Val Gln Leu Asn Pro Met Asn Gly Ala Tyr Ser Pro Ile
 130 135 140
 Val Val Gly Ser Glu Asp Thr Leu Asp Val Phe Gly Val Val Thr Phe
 145 150 155 160
 Ile Val Lys Ser Ala Ser
 165

<210> 6733

<211> 177

<212> PRT

<213> Enterobacter cloacae

<400> 6733

Gly Ser Phe Gln Pro Arg Gly Glu Asp Trp Ser Met Asp Phe Val Met
 1 5 10 15
 Asp Ala Leu Ser Thr Gly Arg Arg Ile Lys Cys Leu Thr Cys Val Asp
 20 25 30
 Asp Phe Thr Lys Glu Cys Leu Thr Val Thr Val Ala Phe Gly Ile Ser

	35		40		45												
Gly	Val	Gln	Val	Thr	Arg	Ile	Leu	Asp	Ser	Ile	Ala	Leu	Phe	Arg	Gly		
	50					55					60						
Tyr	Pro	Ala	Thr	Ile	Arg	Thr	Asp	Gln	Gly	Pro	Glu	Phe	Thr	Cys	Arg		
65					70					75					80		
Ala	Leu	Asp	Gln	Trp	Ala	Phe	Glu	His	Gly	Val	Glu	Leu	Arg	Leu	Ile		
				85					90					95			
Gln	Pro	Gly	Lys	Pro	Thr	Gln	Asn	Gly	Phe	Ile	Glu	Ser	Phe	Asn	Gly		
			100					105					110				
Arg	Phe	Arg	Asp	Glu	Cys	Leu	Asn	Glu	His	Trp	Phe	Ser	Asp	Ile	Val		
			115				120					125					
His	Ala	Arg	Lys	Ile	Ile	Asn	Asp	Trp	Arg	Gln	Asp	Tyr	Asn	Glu	Cys		
	130					135					140						
Arg	Pro	His	Ser	Thr	Leu	Asn	Tyr	Gln	Thr	Pro	Ser	Glu	Phe	Ala	Ala		
145					150					155					160		
Gly	Trp	Arg	Lys	Gly	His	Ser	Glu	Asn	Glu	Asp	Ser	Asp	Val	Thr	Asn		
				165					170					175			

<210> 6734

<211> 215

<212> PRT

<213> Enterobacter cloacae

<400> 6734

Ser	Ser	Glu	Ala	Leu	Met	Asn	Gln	Thr	Gln	Phe	Gln	Lys	Ala	Ala	Gly		
1				5					10					15			
Ile	Ser	Ala	Gly	Leu	Ser	Ala	Arg	Trp	Phe	Pro	His	Ile	Asp	Ala	Ala		
			20					25					30				
Met	Lys	Glu	Tyr	Gly	Ile	Thr	Thr	Pro	Leu	Asp	Gln	Ala	Met	Phe	Ile		
		35					40					45					
Ala	Gln	Met	Gly	His	Glu	Ser	Thr	Arg	Phe	Thr	Arg	Val	Val	Glu	Asn		
		50				55					60						
Leu	Asn	Tyr	Ala	Ala	Glu	Asn	Leu	Val	Pro	Thr	Phe	Gly	Ser	His	Arg		
65					70					75				80			
Ile	Thr	Pro	Gln	Gln	Ala	Ala	Ala	Leu	Gly	Arg	Thr	Ala	Ala	His	Pro		
				85					90					95			
Ala	Asn	Gln	Lys	Ala	Ile	Ala	Asn	Leu	Val	Tyr	Gly	Gly	Glu	Trp	Gly		
			100					105					110				
Lys	Glu	His	Leu	Gly	Asn	Gln	Val	Ala	Gly	Asp	Gly	Trp	Lys	Tyr	Arg		
		115					120					125					
Gly	Arg	Gly	Leu	Lys	Gln	Val	Thr	Gly	Leu	Ser	Asn	Tyr	His	Ser	Cys		
	130					135					140						
Gly	Tyr	Ala	Leu	Lys	Leu	Asp	Leu	Val	Thr	His	Pro	Glu	Leu	Leu	Glu		
145					150					155					160		
Gln	Asp	Glu	Tyr	Ala	Ala	Arg	Ser	Ala	Ala	Trp	Phe	Tyr	Ala	Ser	Arg		
				165					170					175			
Gly	Cys	Leu	Leu	His	Ser	Gly	Asp	Val	Glu	Arg	Val	Thr	Leu	Leu	Ile		
		180						185					190				
Asn	Gly	Gly	Arg	Asn	Gly	Leu	Asp	Lys	Arg	Arg	Glu	Leu	Phe	Asn	Leu		
		195					200					205					
Ala	Lys	Ser	Val	Leu	Val												
	210						215										

<210> 6735

<211> 341

<212> PRT

<213> Enterobacter cloacae

<400> 6735

Gly Arg Phe Phe Ile Gly Val Tyr Met Ala Lys Pro Asp Trp Gly Glu
 1 5 10 15
 Leu Gln Gln Arg Phe Leu Ser Glu His Ala Ala Thr Gly Val Ser Pro
 20 25 30
 Lys Glu Trp Cys Glu Ala Gln Gly Leu Asn Tyr Ala Thr Ala Arg Arg
 35 40 45
 Tyr Ile Lys Lys Pro Ser Ala Gln Ser Val Gln Lys Ser Ala Gln Lys
 50 55 60
 Lys Val Arg Thr Ala Gln Lys Glu Gln Ser Ala Glu Glu Leu Val Asp
 65 70 75 80
 Asp Asp Gly Leu Thr Ala Gln Gln Arg Arg Phe Val Ala Glu Tyr Leu
 85 90 95
 Lys Asp Gly Asn Ala Thr Gln Ala Ala Ile Arg Ala Gly Tyr Ser Lys
 100 105 110
 Lys Ser Ala Glu Gln Ile Gly Tyr Gln Leu Leu Gln Lys Thr Ser Val
 115 120 125
 Ala Gln Ala Ile Ala Gln Gln Gln Lys Ala Ser Ile Ala Arg Thr Leu
 130 135 140
 Gly Ser Ala Asp Glu Val Leu Ala Gln Met Trp Gln Leu Ala Thr Phe
 145 150 155 160
 Asp Ala Asn Gln Leu Ser Gln Tyr Arg Arg Gly Ala Cys Arg Tyr Cys
 165 170 175
 Trp Gly Phe Gly His His Tyr Gln Trp Arg Asp Ala Val Glu Phe Glu
 180 185 190
 Glu Lys Arg Leu Glu Ala Val Glu Arg Asp Arg Arg Glu Pro Glu Asp
 195 200 205
 Ser Gly Gly Tyr Gly Tyr Asp His Asn Arg Glu Pro Asn Pro Glu Cys
 210 215 220
 Pro Arg Cys Asn Gly Asp Gly Ile Gly Gln Pro Tyr Phe Pro Asp Thr
 225 230 235 240
 Arg Lys Leu Pro Ala Val Ser Arg Leu Ala Tyr Ser Gly Val Lys Val
 245 250 255
 Gly Lys Asn Gly Val Glu Ile Thr Ala Ile Ser Arg Glu Arg Met Phe
 260 265 270
 Glu Ala Val Met Lys Arg Leu Gly Leu Ala Asp Ser Glu Phe Ala Gln
 275 280 285
 Arg Leu Gln Gln Ile Glu Ile Asp Arg Arg Leu Leu Glu Val Glu Lys
 290 295 300
 Leu Arg Lys Glu Leu Ala Gly Asp Gly Asp Asp Glu Pro Thr Pro
 305 310 315 320
 Val Gln Ile Asn Ile Asn Val Val Asp Ala Arg Ala Glu Asp Gly Asp
 325 330 335
 Gln Pro Asp Thr
 340

<210> 6736

<211> 433

<212> PRT

<213> Enterobacter cloacae

<400> 6736

Leu Leu Ser Leu Leu Asn Arg Pro Ala Asp Met Phe Ala Leu Cys Asp
 1 5 10 15
 Val Asn Ser Phe Tyr Ala Ser Cys Glu Thr Val Phe Arg Pro Asp Leu
 20 25 30
 Arg Gly Arg Pro Val Val Val Leu Ser Asn Asn Asp Gly Cys Val Ile
 35 40 45
 Ala Arg Ser Ala Glu Ala Lys Ala Ala Gly Ile Ala Met Gly Glu Pro
 50 55 60
 Phe Phe Lys Gln Lys Glu Leu Phe Arg Arg Ala Gly Val Val Cys Phe
 65 70 75 80

Ser Ser Asn Tyr Glu Leu Tyr Ala Asp Met Ser Asn Arg Val Met Thr
 85 90 95
 Thr Leu Glu Glu Met Ser Pro Arg Val Glu Ile Tyr Ser Ile Asp Glu
 100 105 110
 Ala Phe Cys Asp Leu Thr Gly Val Arg Ser Cys Arg Asp Leu Thr Asp
 115 120 125
 Phe Gly Lys Glu Ile Arg Ala Thr Val Leu Lys Arg Thr His Leu Thr
 130 135 140
 Val Gly Val Gly Ile Ala Gln Thr Lys Thr Leu Ala Lys Leu Ala Asn
 145 150 155 160
 His Ala Ala Lys Lys Trp Gln Arg Gln Thr Gly Gly Val Val Asp Leu
 165 170 175
 Ser Asn Ile Asp Arg Gln Arg Arg Leu Ala Ile Val Pro Val Glu
 180 185 190
 Asp Val Trp Gly Val Gly Arg Arg Ile Ile Lys Lys Leu Asn Ala Met
 195 200 205
 Gly Ile Lys Thr Ala Leu Asp Leu Ser Glu Gln Ser Thr Trp Ile Ile
 210 215 220
 Arg Lys His Phe Asn Val Val Leu Glu Gly Thr Val Arg Glu Leu Arg
 225 230 235 240
 Gly Glu Pro Cys Leu Glu Leu Glu Glu Phe Ala Pro Ser Lys Gln Glu
 245 250 255
 Ile Val Cys Ser Arg Ser Phe Gly Glu Arg Val Thr Glu Tyr Glu Gln
 260 265 270
 Met Arg Gln Ala Ile Cys Ser Tyr Ala Ala Arg Gly Ala Glu Lys Leu
 275 280 285
 Arg Gly Glu His Gln Tyr Cys Arg Phe Ile Ser Ala Phe Val Lys Thr
 290 295 300
 Ser Pro Phe Ala Leu Asn Glu Pro Tyr Tyr Gly Asn Ser Ala Ser Met
 305 310 315 320
 Lys Leu Leu Thr Pro Thr Gln Asp Thr Arg Asp Ile Phe Asn Ala Ala
 325 330 335
 Val Lys Cys Leu Asp Lys Ile Trp Lys Asp Gly His Arg Tyr Gln Lys
 340 345 350
 Ala Gly Ile Met Leu Gly Asp Phe Phe Ser Gln Gly Val Ala Gln Leu
 355 360 365
 Asn Leu Phe Asp Glu Asn Ala Pro Arg Ala Gly Ser Glu Arg Leu Met
 370 375 380
 Glu Val Leu Asp His Leu Asn Ala Lys Asp Gly Lys Gly Thr Leu Tyr
 385 390 395 400
 Phe Ala Gly Gln Gly Ile Gln Gln Gln Trp Gln Met Lys Arg Ser Met
 405 410 415
 Leu Ser Pro Arg Tyr Thr Thr Arg Phe Ser Asp Leu Leu His Val Arg
 420 425 430

<210> 6737

<211> 120

<212> PRT

<213> Enterobacter cloacae

<400> 6737

Thr Ser Leu Ala Ala Trp Pro Gly Asp Met Leu Arg Arg Leu Met Val
 1 5 10 15
 Arg Met Glu Lys Gly Arg Arg Gln Glu Thr Ala Leu Leu His Ser Pro
 20 25 30
 Ser Arg Arg Asp Ala Glu Gly Phe Leu Ile Val Thr Ser Ala Ala Asp
 35 40 45
 Lys Gly Leu Val Asp Ile His Asp Arg Arg Pro Leu Val Leu Ser Pro
 50 55 60

Glu Val Ala Leu Glu Trp Met Arg Gln Asp Val Gly Gly Lys Lys Ala
 65 70 75 80
 Glu Glu Leu Ala Ser Asp Gly Val Val Pro Thr Glu Lys Phe Ile Trp
 85 90 95
 His Ala Ile Ser Arg Ala Val Gly Asn Thr Ala Asn Asn His Phe Ser
 100 105 110
 Leu Ile Glu Ser Ile Asn Leu
 115 120

<210> 6738

<211> 212

<212> PRT

<213> Enterobacter cloacae

<400> 6738

Asn Val Gly Leu Gly Ser Ser Ala Thr Lys Asp Val Gly Thr Asp Ser
 1 5 10 15
 Gly Asn Val Met Gln Val Gly Ala Phe Gly Val Gly Thr Tyr Gln Ala
 20 25 30
 Pro Arg Pro Asn Asp Ala Asn Ser Ser Phe Ile Ser Asp Ala Asp Gly
 35 40 45
 Asn Thr Ser Trp Ala Pro Ala Asn Gly Cys Gly Tyr Gln Ser Ser Tyr
 50 55 60
 Asn Thr Gln Arg Ile Ala Gln Met Trp Val Thr Thr Gly Gly Ala Gly
 65 70 75 80
 Tyr Cys Arg Phe Leu Leu Asn Thr Asn Pro Gln Thr Ala Lys Thr Asp
 85 90 95
 Ala Pro Trp Thr Val Phe Gln Ser Ala Gly Thr Ser Asp Ile Asn Phe
 100 105 110
 Lys Lys Val Thr Gly Asp Leu Asp Leu Asn Glu Ser Leu Ser Asn Ile
 115 120 125
 Ala Ala Met Asp Phe Lys Thr Phe Tyr Tyr Leu Ala Asp Glu Asp Lys
 130 135 140
 Val Ile Arg Arg Gly Val Ile Ala Gln Glu Leu Glu Lys Ile Asp Pro
 145 150 155 160
 Gln Tyr Val His Ser Ala Glu Glu Ser Gly Lys Met Thr Leu Asp Leu
 165 170 175
 Asn Pro Leu Val Leu Asp Ala Leu Ala Ala Ile Lys Ala Leu Thr Ile
 180 185 190
 Arg Val Arg Glu Leu Glu Asn Glu Ala Gln Ala Val Val Pro Val Ser
 195 200 205
 Ser Ala Asp
 210

<210> 6739

<211> 106

<212> PRT

<213> Enterobacter cloacae

<400> 6739

Leu Glu Val Ser Met Cys Gly Arg Phe Ala Gln Ala Gln Thr Arg Glu
 1 5 10 15
 Glu Tyr Leu Val Tyr Leu Ala Asp Glu Ala Asp Arg Asp Ile Ala Tyr
 20 25 30
 Asp Pro Glu Pro Ile Gly Arg Tyr Asn Val Ala Pro Gly Thr Lys Val
 35 40 45
 Leu Leu Leu Ser Glu Arg Asp Glu Gln Leu His Leu Asp Pro Val Leu
 50 55 60
 Trp Ser Tyr Ala Pro Gly Trp Trp Asp Lys Pro Pro Leu Ile Asn Ala
 65 70 75 80
 Arg Ile Glu Thr Thr Ala Thr Ser Arg Met Phe Lys Pro Leu Trp Gln

85 90 95
 His Gly Arg Ala Ile Cys Phe Ala Asp
 100 105

<210> 6740
 <211> 382
 <212> PRT
 <213> Enterobacter cloacae

<400> 6740
 Ser Lys Arg Ile Asp Val Lys Val Leu Thr Val Phe Gly Thr Arg Pro
 1 5 10 15
 Glu Ala Ile Lys Met Ala Pro Leu Val His Ala Leu Ala Arg Asp Pro
 20 25 30
 Asp Ile Glu Ala Lys Val Cys Val Thr Ala Gln His Arg Glu Met Leu
 35 40 45
 Asp Gln Val Leu Thr Leu Phe Ser Ile Val Pro Asp Tyr Asp Leu Asn
 50 55 60
 Ile Met Lys Pro Gly Gln Gly Leu Thr Glu Ile Thr Cys Arg Ile Leu
 65 70 75 80
 Gln Glu Leu Lys Pro Ile Leu Glu Ser Phe Lys Pro Asp Val Val Leu
 85 90 95
 Val His Gly Asp Thr Thr Thr Thr Val Ala Thr Ser Leu Ala Ala Phe
 100 105 110
 Tyr Gln Arg Ile Pro Val Gly His Ile Glu Ala Gly Leu Arg Thr Gly
 115 120 125
 Asn Leu Tyr Ser Pro Trp Pro Glu Glu Ala Asn Arg Thr Leu Thr Gly
 130 135 140
 His Leu Ala Met Tyr His Phe Ala Pro Thr Glu Asn Ser Arg Gln Asn
 145 150 155 160
 Leu Leu Arg Glu Asn Ile Ser Asp Ser Lys Ile Phe Val Thr Gly Asn
 165 170 175
 Thr Val Ile Asp Ala Leu Ile Trp Val Arg Asp Arg Val Leu Ala Asn
 180 185 190
 Ser Glu Leu Gln Ala Glu Leu Ala Ala Arg Tyr Pro Phe Leu Asn Asn
 195 200 205
 Gly Lys Lys Thr Ile Leu Val Thr Gly His Arg Arg Glu Ser Phe Gly
 210 215 220
 Arg Gly Phe Glu Gln Ile Cys His Ala Leu Ala Glu Ile Ala Ala Gln
 225 230 235 240
 Asn Glu Asp Val Gln Ile Val Tyr Pro Val His Leu Asn Pro Asn Val
 245 250 255
 Ser Glu Pro Val Asn Arg Ile Leu Gly His Val Glu Asn Val Leu Leu
 260 265 270
 Ile Glu Pro Gln Asp Tyr Leu Pro Phe Val Trp Leu Met Asn His Ala
 275 280 285
 Trp Leu Ile Leu Thr Asp Ser Gly Gly Ile Gln Glu Glu Ala Pro Ser
 290 295 300
 Leu Gly Lys Pro Val Leu Val Met Arg Glu Thr Thr Glu Arg Pro Glu
 305 310 315 320
 Ala Val Thr Ala Gly Thr Val Arg Leu Val Gly Thr Asp Pro Arg Arg
 325 330 335
 Ile Val Glu Glu Val Thr Arg Leu Leu His Asp Asp Glu Glu Tyr Gln
 340 345 350
 Ala Met Ser Arg Ala His Asn Pro Tyr Gly Asp Gly Gln Ala Cys Gly
 355 360 365
 Arg Ile Leu His Ala Leu Lys His Asn Arg Val Thr Leu
 370 375 380

<210> 6741
 <211> 422

<212> PRT

<213> *Enterobacter cloacae*

<400> 6741

Val	Ile	Ser	Pro	Asp	Met	Ser	Leu	Ala	Lys	Ala	Ser	Val	Trp	Thr	Ala
1				5					10					15	
Ala	Ser	Thr	Leu	Val	Lys	Ile	Gly	Ala	Gly	Leu	Leu	Val	Val	Lys	Leu
			20					25					30		
Leu	Ala	Val	Ser	Phe	Gly	Pro	Ser	Gly	Val	Gly	Leu	Ala	Gly	Asn	Phe
			35				40					45			
Arg	Gln	Leu	Val	Thr	Val	Leu	Gly	Val	Leu	Ala	Gly	Ala	Gly	Ile	Phe
	50					55					60				
Asn	Gly	Val	Thr	Lys	Tyr	Val	Ala	Gln	His	His	Asp	Asp	Ala	Glu	Lys
65					70					75				80	
Leu	Arg	Thr	Val	Val	Gly	Thr	Ser	Ser	Ala	Met	Val	Leu	Gly	Phe	Ser
				85					90					95	
Thr	Leu	Leu	Ala	Val	Val	Phe	Leu	Leu	Ala	Ala	Ala	Pro	Ile	Ser	Gln
			100						105				110		
Gly	Leu	Phe	Gly	His	Thr	His	Tyr	Gln	Gly	Leu	Val	Arg	Leu	Val	Ala
		115					120					125			
Leu	Val	Gln	Met	Gly	Ile	Ala	Trp	Ala	Asn	Leu	Leu	Ala	Leu	Met	
		130				135					140				
Lys	Gly	Phe	Arg	Asp	Ala	Ala	Gly	Asn	Ala	Leu	Ala	Leu	Ile	Leu	Gly
145					150					155					160
Ser	Ile	Ile	Gly	Val	Ile	Ala	Tyr	Tyr	Phe	Cys	Tyr	Arg	Leu	Gly	Gly
				165					170					175	
Tyr	Glu	Gly	Ala	Leu	Leu	Gly	Leu	Ala	Leu	Val	Pro	Ala	Leu	Val	Val
			180					185					190		
Ile	Pro	Ala	Ala	Phe	Met	Leu	Met	Arg	Arg	Gly	Asn	Val	Pro	Leu	Ser
		195					200					205			
Tyr	Leu	Lys	Pro	Gln	Trp	Asp	Lys	Ile	Leu	Ala	Gly	Gln	Leu	Gly	Lys
		210				215					220				
Phe	Thr	Leu	Met	Ala	Leu	Ile	Thr	Ser	Val	Thr	Leu	Pro	Val	Ala	Tyr
225					230					235					240
Val	Met	Met	Arg	Asn	Leu	Leu	Ala	Ala	His	Tyr	Ser	Trp	Asp	Glu	Val
				245					250					255	
Gly	Ile	Trp	Gln	Gly	Val	Ser	Ser	Ile	Ser	Asp	Ala	Tyr	Leu	Gln	Phe
			260					265					270		
Ile	Thr	Ala	Ser	Phe	Ser	Val	Tyr	Leu	Leu	Pro	Thr	Leu	Ser	Arg	Leu
		275					280					285			
Thr	Ser	Arg	Gln	Asp	Ile	Thr	Arg	Glu	Ile	Phe	Arg	Ser	Leu	Arg	Phe
		290				295					300				
Val	Leu	Pro	Ala	Val	Ala	Ile	Ala	Ser	Phe	Thr	Val	Trp	Leu	Leu	Arg
305					310					315					320
Asp	Phe	Ala	Ile	Trp	Leu	Leu	Phe	Ser	Ala	Lys	Phe	Thr	Ala	Met	Arg
			325						330					335	
Asp	Leu	Phe	Ala	Trp	Gln	Leu	Val	Gly	Asp	Val	Leu	Lys	Val	Gly	Ala
			340					345					350		
Tyr	Val	Phe	Gly	Tyr	Leu	Val	Ile	Ala	Lys	Ala	Ser	Leu	Arg	Leu	Tyr
		355					360					365			
Ile	Leu	Ala	Glu	Ile	Gly	Gln	Phe	Ala	Leu	Leu	Thr	Ala	Phe	Ser	His
		370				375					380				
Trp	Leu	Ile	Pro	Thr	His	Gly	Ala	Leu	Gly	Ala	Ala	Gln	Ala	Tyr	Met
385					390					395					400
Ala	Thr	Tyr	Ile	Val	Tyr	Phe	Ala	Ala	Cys	Cys	Gly	Val	Phe	Leu	Leu
				405					410					415	
Trp	Arg	Lys	Arg	Ala											
			420												

<210> 6742

<211> 327

<212> PRT

<213> Enterobacter cloacae

<400> 6742

Phe Arg Val Leu Trp Gln Gly Arg Leu Trp Ile Val Gly Ile Ala Leu
 1 5 10 15
 Gly Phe Ala Leu Leu Ala Leu Ala Tyr Thr Phe Phe Ala Lys Gln Glu
 20 25 30
 Trp Ser Ala Thr Ala Ile Thr Asp Arg Pro Thr Val Asn Met Leu Gly
 35 40 45
 Gly Tyr Tyr Ser Gln Gln Gln Phe Leu Arg Asn Leu Asp Ile Lys Ala
 50 55 60
 Asn Leu Ala Thr Pro Asp Gln Ala Ser Val Met Asp Glu Ser Tyr Lys
 65 70 75 80
 Glu Phe Val Met Gln Leu Ala Ser Trp Asp Thr Arg Arg Asp Phe Trp
 85 90 95
 Ser Gln Thr Asp Tyr Tyr Lys Gln Arg Met Val Gly Asn Ser Lys Ala
 100 105 110
 Asp Ala Ala Leu Leu Asp Asp Leu Ile Asn Asn Ile Gln Phe Met Pro
 115 120 125
 Gly Asp Val Leu Arg Asn Val Ser Asp Ser Val Lys Leu Ile Ala Glu
 130 135 140
 Thr Ala Pro Asp Ala Asn Asn Leu Leu Arg Gln Tyr Val Ala Phe Ala
 145 150 155 160
 Ser Gln Arg Ala Ala Ser His Leu Asn Asp Glu Leu Lys Gly Ala Trp
 165 170 175
 Ala Ala Arg Thr Ile Gln Met Lys Ala Gln Val Lys Arg Gln Glu Glu
 180 185 190
 Val Ala Lys Ala Ile Phe Ala Arg Arg Val His Asn Leu Glu Gln Ala
 195 200 205
 Leu Lys Ile Ala Glu Gln His Asn Ile Ser Arg Ser Glu Thr Asp Val
 210 215 220
 Pro Ala Asp Glu Leu Pro Asp Ser Glu Met Phe Leu Leu Gly Arg Pro
 225 230 235 240
 Met Leu Gln Ala Arg Leu Glu Asn Ile Gln Ala Val Gly Pro Asp Phe
 245 250 255
 Asp Leu Asp Tyr Asp Gln Asn Arg Ala Met Leu Asn Thr Leu Asn Val
 260 265 270
 Gly Pro Thr Leu Asp Pro Arg Phe Gln Thr Tyr Arg Tyr Leu Arg Thr
 275 280 285
 Pro Glu Glu Pro Val Lys Arg Asp Ser Pro Arg Arg Ala Phe Leu Met
 290 295 300
 Ile Met Trp Gly Ile Val Gly Ala Leu Thr Gly Ala Gly Val Ala Leu
 305 310 315 320
 Leu Arg Arg Arg Thr Asn
 325

<210> 6743

<211> 232

<212> PRT

<213> Enterobacter cloacae

<400> 6743

Tyr Gln Arg Arg Val Ala Leu Ser Ile Leu Asn Gly Val Leu Glu Ser
 1 5 10 15
 Leu Glu Trp Glu Ser Ala Phe Phe Ala Arg Pro Ser Ala Ile Val Arg
 20 25 30
 Leu Arg Asp Asn Ala Pro Ala Leu Gln Asp Ala Asp Phe Ser Ala Trp
 35 40 45
 Gln Arg Val Gln Ala Lys Ile Pro Ala Asp Arg Ala Asp Leu Leu Asp
 50 55 60

Ala	Leu	Gln	Gln	His	Gly	Phe	Arg	Leu	Val	Glu	Gly	Glu	Val	Asp	Leu
65					70					75					80
Ser	Val	Thr	Val	Ala	Arg	Tyr	Ala	Ser	Pro	Gly	Ala	Glu	Ile	Ala	Thr
				85					90					95	
Glu	Gln	Asp	Ile	Pro	Thr	Leu	Arg	Lys	Met	Ala	Ala	Leu	Ala	Phe	Ala
			100					105					110		
Gln	Ser	Arg	Phe	Arg	Ala	Pro	Trp	Tyr	Ala	Pro	Asp	Asp	Ser	Gly	Arg
		115					120					125			
Phe	Tyr	Ala	Gln	Trp	Ile	Glu	Asn	Ala	Val	Lys	Gly	Thr	Phe	Asp	His
	130					135					140				
Val	Cys	Leu	Val	Phe	Arg	Thr	Asp	Gly	Gly	Gln	Ile	Gln	Gly	Phe	Val
145					150					155					160
Ser	Leu	Arg	Arg	Leu	Thr	Glu	His	Glu	Ala	Arg	Ile	Gly	Leu	Leu	Ala
				165					170					175	
Gly	Arg	Gly	Met	Gly	Glu	Lys	Leu	Met	Gln	Ala	Ala	Leu	His	Trp	Ala
			180					185					190		
Glu	Gln	Gln	Gln	Val	Ser	Thr	Leu	Arg	Val	Ala	Thr	Gln	Met	Gly	Asn
		195					200					205			
Thr	Ala	Ala	Leu	Lys	Arg	Tyr	Ile	Ala	Ser	Gly	Ala	Ser	Ile	Asp	Ala
	210					215					220				
Thr	Ala	Tyr	Trp	Leu	Tyr	Arg									
225					230										

<210> 6744

<211> 475

<212> PRT

<213> Enterobacter cloacae

<400> 6744

His	Arg	Leu	Phe	Gln	Pro	Glu	Leu	Pro	His	Ala	Val	Ala	Pro	Arg	Ala
1				5					10					15	
Ala	Tyr	Cys	Phe	Arg	Arg	Gln	Arg	Met	Ser	Gln	Leu	Gln	Phe	Ser	Gly
			20					25					30		
Leu	Leu	Val	Val	Trp	Leu	Leu	Ser	Thr	Leu	Phe	Ile	Ala	Thr	Leu	Thr
		35					40					45			
Trp	Phe	Glu	Phe	Arg	Arg	Val	Ser	Phe	Asn	Phe	Asn	Val	Phe	Phe	Ser
	50					55					60				
Leu	Leu	Phe	Leu	Leu	Thr	Phe	Phe	Phe	Gly	Phe	Pro	Leu	Thr	Ser	Ile
65					70					75					80
Leu	Val	Phe	Arg	Phe	Asp	Val	Gly	Val	Ala	Pro	Pro	Glu	Ile	Leu	Leu
				85					90					95	
Gln	Ala	Leu	Leu	Ser	Ala	Thr	Cys	Phe	Tyr	Ala	Val	Tyr	Tyr	Val	Thr
		100						105					110		
Tyr	Lys	Thr	Arg	Leu	Arg	Ala	Ala	Lys	Asp	Thr	Ala	Pro	Arg	Arg	Pro
		115					120					125			
Leu	Phe	Thr	Met	Asn	Arg	Val	Glu	Thr	His	Leu	Thr	Trp	Val	Met	Leu
	130					135					140				
Met	Thr	Ile	Ala	Leu	Val	Ser	Val	Ala	Ile	Phe	Phe	Met	His	Asn	Gly
145					150					155					160
Phe	Leu	Leu	Phe	Lys	Leu	Gln	Ser	Tyr	Ser	Gln	Ile	Phe	Ser	Ala	Glu
				165					170					175	
Val	Ser	Gly	Val	Ala	Leu	Lys	Arg	Phe	Phe	Tyr	Phe	Phe	Ile	Pro	Ala
			180					185					190		
Met	Leu	Val	Val	Phe	Phe	Leu	Arg	Gln	Asp	Ser	Lys	Ala	Trp	Leu	Phe
	195						200					205			
Phe	Leu	Val	Ser	Thr	Val	Ala	Phe	Gly	Ile	Leu	Thr	Tyr	Met	Ile	Val
	210					215					220				
Gly	Gly	Thr	Arg	Ala	Asn	Ile	Ile	Ile	Ala	Phe	Ala	Ile	Phe	Leu	Phe
225					230					235					240
Ile	Gly	Ile	Ile	Arg	Gly	Trp	Ile	Ser	Leu	Trp	Met	Leu	Ala	Ala	Ala
				245					250					255	

Gly Val Phe Gly Ile Val Gly Met Phe Trp Leu Ala Leu Lys Arg Tyr
 260 265 270
 Gly Leu Asn Val Ala Gly Asp Glu Ala Phe Tyr Thr Phe Leu Tyr Leu
 275 280 285
 Thr Arg Asp Thr Phe Ser Pro Trp Glu Asn Leu Ala Leu Leu Leu Gln
 290 295 300
 Asn Tyr Asp Lys Ile Glu Phe Gln Gly Leu Ala Pro Ile Val Arg Asp
 305 310 315 320
 Phe Tyr Val Phe Ile Pro Thr Trp Leu Trp Pro Asp Arg Pro Gly Ile
 325 330 335
 Val Leu Asn Thr Ala Asn Tyr Phe Thr Trp Glu Val Leu Asn Asn His
 340 345 350
 Ser Gly Leu Ala Ile Ser Pro Thr Leu Ile Gly Ser Leu Val Val Met
 355 360 365
 Gly Gly Thr Trp Phe Ile Leu Pro Gly Ala Ile Ala Val Gly Leu Ile
 370 375 380
 Ile Lys Trp Phe Asp Trp Leu Tyr Thr Leu Gly Asn Glu Glu Thr Asn
 385 390 395 400
 Arg Tyr Lys Ala Ala Val Leu His Ser Phe Cys Phe Gly Ala Ile Phe
 405 410 415
 Asn Met Ile Val Leu Ala Arg Glu Gly Leu Asp Ser Phe Val Ser Arg
 420 425 430
 Val Val Phe Phe Met Val Val Phe Gly Leu Cys Leu Leu Ala Lys
 435 440 445
 Leu Leu Tyr Trp Leu Phe Asp Ser Ala Gly Leu Val His Arg Arg Glu
 450 455 460
 Pro Gln Gly Ser Thr Thr Leu Ser Gln Val
 465 470 475

<210> 6745

<211> 251

<212> PRT

<213> Enterobacter cloacae

<400> 6745

Val Gly Ile Ile Met Thr Asp Thr Thr Ser Ala Pro Arg Tyr Ala Leu
 1 5 10 15
 Arg Gly Leu Gln Leu Ile Gly Trp Arg Asp Met Gln His Ala Leu Asp
 20 25 30
 Phe Leu Phe Ala Asp Gly Gln Met Lys Ser Gly Thr Leu Val Ala Ile
 35 40 45
 Asn Ala Glu Lys Met Leu Ala Val Glu Asp Asn Ala Glu Val Lys Ser
 50 55 60
 Leu Ile Glu Ala Ala Glu Phe Lys Tyr Ala Asp Gly Ile Ser Val Val
 65 70 75 80
 Arg Ser Ile Arg Lys Lys Phe Pro Asp Ala Asn Val Ser Arg Val Ala
 85 90 95
 Gly Ala Asp Leu Trp Glu Arg Leu Met Glu Arg Ala Gly Ala Glu Gly
 100 105 110
 Thr Pro Val Phe Leu Ile Gly Gly Lys Pro Glu Val Leu Ala Gln Thr
 115 120 125
 Glu Gln Lys Leu Arg Asn Gln Trp Asn Val Asn Ile Val Gly Ser Gln
 130 135 140
 Asp Gly Tyr Phe Arg Pro Glu Asp Arg Gln Thr Leu Tyr Glu Arg Val
 145 150 155 160
 Arg Asp Ser Gly Ala Lys Ile Val Thr Val Ala Met Gly Ser Pro Arg
 165 170 175
 Gln Glu Ile Leu Met Arg Asp Cys Arg Leu Val Ser Pro Asp Ala Leu
 180 185 190
 Tyr Met Gly Val Gly Gly Thr Tyr Asp Val Phe Thr Gly His Val Lys
 195 200 205

Arg Ala Pro Lys Val Trp Gln Asn Leu Gly Leu Glu Trp Leu Tyr Arg
 210 215 220
 Leu Leu Ser Gln Pro Thr Arg Ile Lys Arg Gln Ile Arg Leu Leu Arg
 225 230 235 240
 Tyr Leu Ala Trp His Tyr Thr Gly Lys Met
 245 250

<210> 6746

<211> 328

<212> PRT

<213> Enterobacter cloacae

<400> 6746

Glu Thr Ile Arg Ser Val Phe Gln Tyr Pro Ser Lys Thr Ile Pro Gly
 1 5 10 15
 Asn Lys Ser Gly Asn Ser Lys His Asn Arg Gly Ile Met Ala Glu Lys
 20 25 30
 Lys Pro Glu Leu Gln Arg Gly Leu Glu Ala Arg His Ile Glu Leu Ile
 35 40 45
 Ala Leu Gly Gly Thr Ile Gly Val Gly Leu Phe Met Gly Ser Ala Ser
 50 55 60
 Thr Leu Lys Trp Ala Gly Pro Ser Val Leu Leu Ala Tyr Ile Ile Ala
 65 70 75 80
 Gly Leu Phe Val Phe Phe Ile Met Arg Ser Met Gly Glu Met Leu Phe
 85 90 95
 Leu Glu Pro Val Thr Gly Ser Phe Ala Val Asn Ala His Arg Tyr Met
 100 105 110
 Ser Pro Phe Phe Gly Tyr Leu Thr Ala Trp Ser Tyr Trp Phe Met Trp
 115 120 125
 Met Ala Val Gly Ile Ser Glu Ile Thr Ala Ile Gly Val Tyr Val Gln
 130 135 140
 Phe Trp Phe Pro Glu Met Ala Gln Trp Ile Pro Ala Leu Ile Ala Val
 145 150 155 160
 Gly Leu Val Ala Leu Ala Asn Ile Ala Ala Val Arg Leu Tyr Gly Glu
 165 170 175
 Ile Glu Phe Trp Phe Ala Met Ile Lys Val Thr Thr Ile Ile Val Met
 180 185 190
 Ile Val Val Gly Leu Gly Val Ile Phe Phe Gly Phe Gly Asn Gly Gly
 195 200 205
 His Ala Val Gly Phe Gly Asn Leu Thr Gly His Gly Gly Phe Phe Ala
 210 215 220
 Gly Gly Trp Lys Gly Phe Leu Thr Ala Leu Cys Ile Val Val Ala Ser
 225 230 235 240
 Tyr Gln Gly Val Glu Leu Ile Gly Ile Thr Ala Gly Glu Ala Lys Asn
 245 250 255
 Pro Gln Val Thr Leu Arg Ser Ala Val Gly Lys Val Leu Trp Arg Ile
 260 265 270
 Leu Ile Phe Tyr Val Gly Ala Ile Phe Val Ile Val Thr Ile Phe Pro
 275 280 285
 Trp Asn Glu Ile Gly Thr Thr Gly Ser Pro Phe Val Leu Thr Phe Ala
 290 295 300
 Lys Ile Gly Ile Thr Ala Ala Ala Ala Ile Ile Asn Phe Val Val Leu
 305 310 315 320
 Thr Ala Ala Leu Ser Arg Leu
 325

<210> 6747

<211> 427

<212> PRT

<213> Enterobacter cloacae

<400> 6747

Thr Gln Ser Gly Asn Ala Met Ser Phe Thr Thr Ile Ser Val Val Gly
 1 5 10 15
 Leu Gly Tyr Ile Gly Leu Pro Thr Ala Ala Phe Ala Ser Arg Gln
 20 25 30
 Lys Gln Val Val Gly Val Asp Ile Asn Ala His Ala Val Glu Thr Ile
 35 40 45
 Asn Arg Gly Glu Ile His Ile Val Glu Pro Asp Leu Asp Arg Val Val
 50 55 60
 Lys Lys Ala Val Asp Gly Gly Phe Leu Arg Ala Ser Thr Thr Pro Val
 65 70 75 80
 Glu Ala Asp Ala Tyr Leu Ile Ala Val Pro Thr Pro Phe Lys Gly Asp
 85 90 95
 His Glu Pro Asp Met Val Tyr Val Glu Ala Ala Ala Lys Ser Ile Ala
 100 105 110
 Pro Val Leu Lys Lys Gly Ala Leu Val Ile Leu Glu Ser Thr Ser Pro
 115 120 125
 Val Gly Ala Thr Glu Gln Met Ala Gln Trp Leu Ala Glu Ala Arg Pro
 130 135 140
 Asp Leu Ser Phe Pro Gln Gln Val Gly Asp Gln Ala Asp Ile Asn Ile
 145 150 155 160
 Ala Tyr Cys Pro Glu Arg Val Leu Pro Gly Gln Val Met Val Glu Leu
 165 170 175
 Ile Lys Asn Asp Arg Val Ile Gly Gly Met Thr Pro Val Cys Ser Ala
 180 185 190
 Arg Ala Ser Glu Leu Tyr Lys Ile Phe Leu Glu Gly Glu Cys Val Val
 195 200 205
 Thr Asn Ser Arg Thr Ala Glu Met Cys Lys Leu Thr Glu Asn Ser Phe
 210 215 220
 Arg Asp Val Asn Ile Ala Phe Ala Asn Glu Leu Ser Leu Ile Cys Ala
 225 230 235 240
 Asp Gln Gly Ile Asn Val Trp Glu Leu Ile Arg Leu Ala Asn Arg His
 245 250 255
 Pro Arg Val Asn Ile Leu Gln Pro Gly Pro Gly Val Gly Gly His Cys
 260 265 270
 Ile Ala Val Asp Pro Trp Phe Ile Val Ala Gln Asn Pro Glu Gln Ala
 275 280 285
 Arg Leu Ile Arg Thr Ala Arg Glu Val Asn Asp His Lys Pro His Trp
 290 295 300
 Val Ile Asn Gln Val Lys Ala Thr Val Ala Asp Cys Leu Ala Asp Ser
 305 310 315 320
 Gly Lys Arg Ala Ser Glu Leu Lys Ile Ala Cys Phe Gly Leu Ala Phe
 325 330 335
 Lys Pro Asn Ile Asp Asp Leu Arg Glu Ser Pro Ala Met Glu Ile Ala
 340 345 350
 Glu Met Ile Ala Ala Trp His Ser Gly Glu Thr Leu Val Val Glu Pro
 355 360 365
 Asn Ile His Ala Leu Pro Ala Lys Leu Ala Gly His Cys Thr Leu Thr
 370 375 380
 Ala Leu Asp Asp Ala Leu Ala Thr Ala Asp Val Leu Val Leu Leu Val
 385 390 395 400
 Asp His Asn Ala Phe Lys Ala Val Ser Gly Asp Ala Val Arg Gln Gln
 405 410 415
 Tyr Val Val Asp Thr Lys Gly Val Trp Arg
 420 425

<210> 6748

<211> 435

<212> PRT

<213> Enterobacter cloacae

<400> 6748

Pro Gly Ala Ala Trp Ala Arg Asn Ser Cys Arg Arg Arg Cys Thr Gly
 1 5 10 15
 Arg Ser Asn Asn Arg Tyr Arg Arg Cys Gly Ser Gln Pro Arg Trp Ala
 20 25 30
 Thr Pro Leu Arg Leu Asn Val Ile Leu Arg Val Val Pro Ala Ser Thr
 35 40 45
 Pro Pro Pro Thr Gly Tyr Thr Gly Asp Lys Met Ile Pro Phe Asn Ala
 50 55 60
 Pro Pro Val Val Gly Thr Glu Leu Asp Tyr Met Gln Ser Ala Met Gly
 65 70 75 80
 Ser Gly Lys Leu Cys Gly Asp Gly Gly Phe Thr Arg Arg Cys Gln Gln
 85 90 95
 Trp Met Glu Gln Arg Phe His Ser Ala Lys Val Leu Leu Thr Pro Ser
 100 105 110
 Cys Thr Ala Ser Leu Glu Met Ala Ala Leu Leu Leu Asp Ile Gln Pro
 115 120 125
 Gly Asp Glu Val Ile Met Pro Ser Tyr Thr Phe Val Ser Thr Ala Asn
 130 135 140
 Ala Phe Val Leu Arg Gly Ala Lys Ile Val Phe Val Asp Ile Arg Pro
 145 150 155 160
 Asp Thr Met Asn Ile Asp Glu Thr Leu Ile Glu Ala Ala Ile Thr Asp
 165 170 175
 Lys Thr Arg Ala Ile Val Pro Val His Tyr Ala Gly Val Ala Cys Glu
 180 185 190
 Met Asp Thr Ile Met Ala Ile Ala Lys Lys His Asn Leu Phe Val Val
 195 200 205
 Glu Asp Ala Ala Gln Gly Val Met Ser Thr Tyr Lys Gly Arg Ala Leu
 210 215 220
 Gly Thr Ile Gly His Ile Gly Cys Phe Ser Phe His Glu Thr Lys Asn
 225 230 235 240
 Tyr Thr Ala Gly Gly Glu Gly Gly Ala Thr Leu Ile Asn Asp Arg Ala
 245 250 255
 Leu Val Glu Arg Ala Glu Val Ile Arg Glu Lys Gly Thr Asn Arg Ser
 260 265 270
 Gln Phe Phe Arg Gly Gln Val Asp Lys Tyr Thr Trp Arg Asp Ile Gly
 275 280 285
 Ser Ser Tyr Leu Met Ala Asp Leu Gln Ala Ala Tyr Leu Trp Ala Gln
 290 295 300
 Leu Glu Ala Ala Glu Arg Ile Asn Leu Gln Arg Leu Ser Leu Trp Gln
 305 310 315 320
 Thr Tyr Tyr Asp Ala Leu Glu Pro Leu Ala Lys Ala Gly Arg Ile Glu
 325 330 335
 Leu Pro Thr Ile Pro Ala Asp Cys Ile His Asn Ala His Met Phe Tyr
 340 345 350
 Ile Lys Leu Arg Asp Asn Asp Asp Arg Ser Lys Leu Ile Ala Trp Leu
 355 360 365
 Lys Glu Ala Glu Ile Met Ala Val Phe His Tyr Ile Pro Leu His Ser
 370 375 380
 Ser Pro Ala Gly Glu Ala Phe Gly Met Phe Ala Gly Glu Asp Arg Tyr
 385 390 395 400
 Thr Thr Lys Glu Ser Glu Arg Leu Leu Arg Leu Pro Leu Phe Tyr Asn
 405 410 415
 Leu Ala Pro Val Asn Gln Arg Thr Val Ile Asn Ser Leu Leu Ser Tyr
 420 425 430
 Phe Ala
 435

<210> 6749

<211> 362

<212> PRT

<213> Enterobacter cloacae

<400> 6749

Thr Arg Met Thr Ala Leu Ile His Ile Leu Gly Ser Asp Ile Pro His
 1 5 10 15
 His Asn Gln Thr Val Leu Arg Phe Phe Asn Asp Glu Leu Ala Ser Gly
 20 25 30
 Thr Pro Asp Ala Arg Glu Phe Met Val Val Gly Arg Asp Asn Gly Leu
 35 40 45
 Ser Val Ala Cys Pro Ala Leu His Ile Thr Phe Trp Pro Asp Lys Ala
 50 55 60
 Ala Leu Thr Lys Ala Val Val Ala Lys Ala Lys Ala Asp Arg Ser Gln
 65 70 75 80
 Arg Phe Phe Phe His Gly Gln Phe Asn Thr Gly Leu Trp Leu Ala Leu
 85 90 95
 Leu Ser Gly Gly Ile Lys Pro Ser Gln Phe Ser Trp His Ile Trp Gly
 100 105 110
 Ala Asp Leu Tyr Glu Val Ser Arg Gly Trp Lys Phe Arg Leu Phe Tyr
 115 120 125
 Pro Leu Arg Arg Leu Ala Gln Ala Arg Val Gly Cys Val Phe Ala Thr
 130 135 140
 Arg Gly Asp Leu Asn Tyr Phe Ala Lys Gln His Pro Lys Val Arg Gly
 145 150 155 160
 Glu Leu Leu Tyr Phe Pro Thr Arg Met Asp Pro Ala Leu Asn Thr Leu
 165 170 175
 Ala Asn Asp Ala Val Arg Glu Gly Lys Leu Thr Ile Leu Val Gly Asn
 180 185 190
 Ser Gly Asp Arg Ser Asn Glu His Val Ala Ala Leu Arg Ala Val His
 195 200 205
 Gln Gln Phe Gly Asp Thr Val Asn Val Val Val Pro Met Gly Tyr Pro
 210 215 220
 Ala Asn Asn Asp Ala Tyr Ile Asn Asp Val Arg Gln Gln Gly Leu Ala
 225 230 235 240
 Leu Phe Ser Ala Glu Asn Leu His Ile Leu Asn Asp Lys Leu Glu Phe
 245 250 255
 Asp Asp Tyr Leu Ala Leu Leu Arg Lys Cys Asp Leu Gly Tyr Phe Ile
 260 265 270
 Phe Ala Arg Gln Gln Gly Ile Gly Thr Leu Cys Leu Leu Ile Gln Ala
 275 280 285
 Gly Val Pro Cys Val Leu Asn Arg Glu Asn Pro Phe Trp Gln Asp Met
 290 295 300
 Ala Glu Gln His Ile Pro Val Leu Phe Thr Ser Asp Thr Leu Asn Val
 305 310 315 320
 Glu Val Val Arg Glu Ala Gln Arg Gln Leu Thr Leu Val Asp Lys Asn
 325 330 335
 Ser Ile Asp Phe Phe Ser Pro Asn Tyr Leu Thr Pro Trp His His Ala
 340 345 350
 Leu Arg Ile Ala Ser Gly Asp Asn Ala
 355 360

<210> 6750

<211> 291

<212> PRT

<213> Enterobacter cloacae

<400> 6750

Gln Pro Ile Pro Ala Val Val Cys Arg Leu Thr Lys Ala Lys Ser Glu
 1 5 10 15
 Leu Ser Arg Leu Ser Asn Gln Pro Ala Ala Arg Arg Val Asn Pro
 20 25 30
 Leu Asn Gly Val Leu Met Gln Ile Ser Thr Glu Val Leu Asn Val Leu


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<210> 6751
<211> 365
<212> PRT
<213> Enterobacter cloacae
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Leu 1	Ile	Met	Thr	Lys 5	Glu	Lys	Asp	Thr	Glu 10	Gln	Gln	Asp	Leu	Val 15	Thr
Arg	Ala	Phe	Ser 20	Val	Arg	Glu	Lys	Glu 25	Ser	Gly	Lys	Asp	Ile 30	Ile	Leu
Arg	Pro	Asn 35	Ser	Asn	Arg	Thr	Val 40	Gln	Ser	Ile	Ala	Leu 45	Met	Arg	Leu
Gly	Leu 50	Phe	Val	Pro	Ser	Pro 55	Lys	Ser	Val	Gly	Arg 60	Gln	Asn	Arg	Glu
Tyr 65	Lys	Thr	Val	Gly 70	Phe	Asp	Ala	Thr	Lys 75	Glu	Leu	Gln	Thr	Leu 80	Ser
Leu	Met	Glu	Ser 85	Glu	Gly	Phe	Thr	Asn 90	Ile	Ser	Ile	Val	Gly 95	Glu	Arg
Leu	Asp	Met 100	Ser	Val	Asp	Phe	Lys	Thr 105	Trp	Met	Gly	Ile	Ile 110	Arg	Thr
Tyr	Ala	Asn 115	His	Pro	Ile	Asn	Asn 120	Asp	Thr	Ile	Ser	Leu 125	Lys	Phe	Thr
Glu	Phe 130	Leu	Lys	Leu	Cys	Thr 135	Pro	Glu	Asn	Tyr	Arg 140	Ser	Ser	Thr	Ala
Ser 145	Arg	Lys	Arg	Ile 150	Asp	Ala	Ser	Leu	Arg 155	Arg	Leu	Ala	Ser	Val	Thr
Leu	Ser	Phe	Thr	Ser	Asn	Asn	Ser	Ser	Lys	Val	Tyr	Thr	Thr	His	Leu

[illegible]

<400> 6752

Arg 1	Pro	Tyr	Val	Lys 5	Asp	Met	Thr	Gly	Gly 10	Gly	Pro	Phe	Gln	Leu 15	Arg
Ala	Gly	Glu	Trp 20	Thr	Asp	Asp	Thr	Ser 25	Met	Ala	Leu	Cys	Leu 30	Ala	Glu
Thr	Leu	Leu 35	Glu	Lys	Gly	Asp	Ala 40	Asp	Thr	Ile	Cys 45	Phe	Arg	Asn	Lys
Leu 50	Leu	Glu	Trp	Tyr	Gln	His 55	Gly	Tyr	Asn	Ser 60	Ser	Ile	Gly	Val	Cys
Phe 65	Asp	Ile	Gly	Asn	Thr 70	Thr	Arg	Phe	Ala 75	Leu	Glu	Gln	Tyr	Leu 80	Thr
Ile	Gly	Pro	Gly	Trp 85	Ser	Gly	Asn	Thr 90	Ala 95	Pro	Glu	Thr	Ala	Gly 95	Asn
Ala	Ser	Ile	Ile 100	Arg	Gln	Ala	Pro 105	Val	Ser 110	Ile	Phe	Phe	Arg	Lys	Ser
Leu	Ser	Lys 115	Ala	Phe	Tyr	Glu	Ala 120	Lys	Lys	Gln	Cys	Ile 125	Ala	Thr	His
Gly 130	Ala	Ala	Glu	Ala	Ile	Asn 135	Ser	Thr	Gln	Tyr 140	Leu	Ser	Tyr	Leu	Leu
Val 145	His	Met	Ile	Asn 150	Gly	Ser	Asn	Lys	Asp 155	Phe	Val	Phe	Ser	Pro	His
Val	Met	Pro	Leu 165	Gln	Pro	Arg	Val	Met 170	Ile	Asn	Ala	Gly	Glu 175	Tyr	
Lys	Gln	Lys	Thr 180	Arg	Asp	Gln	Ile 185	Arg	Ser	Ser	Gly	Tyr	Val 190	Ile	Asp
Thr	Leu 195	Glu	Ala	Ala	Met	Trp	Ser 200	Val	Trp	Asn	Thr 205	Asp	Asn	Phe	Arg
Asp	Ala 210	Ile	Leu	Leu	Ala	Ala 215	Asn	Leu	Ala	Asp 220	Asp	Ala	Asp	Ser	Val
Ala	Ala	Thr	Ala	Gly	Gln	Ile	Ala	Gly	Ala	Leu	Tyr	Gly	Tyr	Ser	Gly

225					230					235				240
Ile	Pro	Gln	Glu	Trp	Lys	Asn	Asn	Leu	Val	Gln	His	Glu	Arg	Ile
				245					250					255
Lys	Met	Ala	Gly	Glu	Leu	Phe	Asp	Arg	Ala	Pro	Glu	Asp	Thr	Phe
			260					265					270	Leu

<210> 6753

<211> 1457

<212> PRT

<213> Enterobacter cloacae

<400> 6753

Gly	Met	Ser	Asp	Asn	Asn	Ala	Ala	Arg	Lys	Gly	Asp	Glu	Ile	Ile	His
1			5						10					15	
Ser	Ser	Ile	Phe	Ala	Asp	Ile	Thr	Ser	Ile	Val	Ala	Glu	Gly	Ala	Ala
			20					25					30		
Tyr	Ala	Val	Ile	Gly	Ala	Ala	Val	Gly	Ala	Ala	Ala	Thr	Val	Ala	Ala
		35					40					45			
Pro	Leu	Leu	Gly	Ala	Gly	Ala	Ala	Ala	Gly	Val	Ala	Ala	Ile	Gly	
	50					55				60					
Ser	Ser	Cys	Leu	Leu	Ser	Gly	Ile	Ile	Gly	Gly	Val	Leu	Ala	Asn	Val
65					70				75					80	
Ala	Gly	Ile	Thr	Asp	Asp	Ile	Ser	Asn	Ala	Ala	Glu	Gly	Leu	Gly	Asn
				85				90						95	
Ala	Leu	Phe	Pro	Pro	Ser	Pro	Ala	Gly	Lys	Ile	Thr	Thr	Gly	Ser	Asn
			100					105					110		
Asn	Val	Leu	Thr	Asn	Ala	Ile	Pro	Ala	Ala	Arg	Ala	Ala	Gly	Thr	Leu
		115					120					125			
Thr	Pro	Ala	Asp	Thr	Pro	Ser	Pro	Glu	Pro	Gln	Ser	Pro	Gly	Ser	Phe
	130					135					140				
Ala	Asp	Tyr	Ala	Gly	Met	Leu	Leu	Ser	Ala	Ala	Gly	Gln	Phe	Gly	Ser
145					150				155						160
Glu	Met	Trp	Gln	Pro	Ser	Val	Ala	Ser	Ala	Ala	Ala	Gly	Thr	Ser	Pro
				165				170						175	
Leu	Glu	Glu	Asp	Lys	Val	Ala	Cys	Glu	Lys	His	Ser	Gly	Pro	Gln	Tyr
			180					185					190		
Leu	Ala	Glu	Gly	Ser	Lys	Ser	Val	Phe	Ile	Asn	Gly	Gln	Pro	Ala	Val
		195					200					205			
Arg	Ala	Lys	Asp	Arg	Thr	Thr	Cys	Glu	Gly	Thr	Val	Ser	Asp	Asp	Val
	210					215					220				
Ser	Pro	Asn	Val	Ile	Ile	Gly	Gly	Asp	Thr	Leu	Thr	Val	Arg	Asp	Ile
225					230				235						240
Lys	Ser	Gly	Lys	Thr	Pro	Gly	Leu	Ala	Leu	Gly	Met	Ile	Ala	Leu	Ser
			245					250						255	
Leu	Leu	Arg	Gly	Arg	Pro	Gly	Lys	Ile	Leu	Lys	Asn	Met	Pro	Cys	Ala
			260				265						270		
Leu	Ala	Ala	Ala	Gly	Gly	Gly	Met	Leu	Ala	Asp	Met	Ala	Val	Asn	Ala
		275					280					285			
Val	Phe	Gly	Ser	Ser	His	Pro	Val	His	Ala	Ala	Thr	Gly	Val	Lys	Val
	290					295					300				
Leu	Asn	Asp	Asp	Asp	Glu	Leu	Asp	Phe	Ser	Leu	Pro	Gly	Arg	Phe	Pro
305					310				315						320
Leu	Arg	Trp	Gln	Arg	Ser	Tyr	Asn	Ser	Leu	Thr	Thr	Arg	Glu	Gly	Leu
			325					330						335	
Phe	Gly	Leu	Gly	Trp	Ala	Thr	Thr	Phe	Asp	Ser	Tyr	Leu	Thr	Leu	Glu
			340					345					350		
Glu	Asn	Asn	Ala	Thr	Trp	Phe	Asp	Glu	Thr	Gly	Arg	Glu	Leu	Ser	Phe
		355					360					365			
Glu	Leu	Pro	Pro	Val	Asp	Arg	Ala	Phe	Tyr	Ser	Ile	Ser	Glu	Gly	Ile

370	375	380
Ile Ile Arg Arg Asn Glu Ser Gly Asp Val Ala Ile Ala Asp Asp Asp		
385	390	395
Gly Ala Val Trp Arg Leu Tyr Lys Pro Thr Arg Ala Asn Pro Ser Ile		400
	405	410
Leu Arg Leu Ala Ser Leu Ser Asp Glu Tyr Gly Asn Ala Leu Leu Thr		415
	420	425
Ala Trp Asp Glu His Gly Arg Leu Val Gly Ile His Asp Glu Pro Arg		430
	435	440
Ala Ile Asp Val Ser Leu Arg Tyr Asp Asp Glu Arg Phe Pro Gln Arg		445
	450	455
Val Thr Ala Ala Ser His Phe Asp Gly Asn Gln Thr Trp Pro Leu Met		460
465	470	475
His Trp Gly Tyr Asp Ala Arg Gly Gln Leu Ala Ser Ala Thr Asp Ala		480
	485	490
Ser Gly Val Val Thr Arg Glu Tyr Arg Tyr Asn Asp His Gly Leu Met		495
	500	505
Val Trp His Arg Met Pro Gly Gly Leu Glu Ser Glu Tyr Arg Trp Gln		510
	515	520
Lys Phe Asp His Trp Arg Val Val Glu Asn Arg Thr Ser Thr Gly Asp		525
	530	535
Gly Cys Arg Phe Thr Tyr Asp Leu Ala Ala Gly Leu Thr Thr Val Glu		540
545	550	555
His Tyr Asp Gly Gln Thr Arg Lys His Tyr Trp Asn Ala Gln Asn Leu		560
	565	570
Ile Val Arg Tyr Val Asp Glu Ser Gly Glu Asn Trp Arg Tyr Glu Trp		575
	580	585
Asp Asp Asn Glu Leu Leu Thr Arg Arg Ile Asp Pro Leu Gly Asn Ala		590
	595	600
Val Thr Phe Val Tyr Asp Asp Met Gly Asn Arg Val Gln Glu Ile Asp		605
	610	615
Ala Asp Gly Asn Thr Arg Thr Thr Thr Trp Leu Glu His Arg Ala Leu		620
625	630	635
Pro Ala Ala Ile Ile Glu Ala Asp Gly Asn Ala Thr Arg Phe Trp Tyr		640
	645	650
Asp Glu His His Gly Leu Lys Arg Val Val Asp Pro Met Gly Gln Thr		655
	660	665
Thr Leu Leu Arg Arg Asp Glu Phe Gly Gln Val Val Glu Val Asp		670
	675	680
Ala Ala Gly Asn Ser Arg Tyr Gln Glu Tyr Asn Glu Ala Gly Gln Met		685
	690	695
Val Arg Ala Thr Asp Cys Ser Gly Arg Val Thr Gln Tyr Arg Tyr His		700
705	710	715
Pro Leu Gly Trp Leu Met Ala Glu Thr Ala Ala Asp Gly Glu Glu Thr		720
	725	730
Arg Tyr Arg Tyr Asp Ala Ala Gly Arg Pro Val Gln Leu Asp Arg Pro		735
	740	745
Glu Gly Trp Thr Glu Ser Leu Lys Trp Asn Glu Arg Gly Leu Pro Val		750
	755	760
Lys His Ala Gly Ala Asp Gly Lys Glu Ser Glu Phe Arg Tyr Asp Glu		765
	770	775
Ala Gly Arg Leu Thr Ala Thr Arg Asn Thr Gln Gly Glu Glu Val Arg		780
785	790	795
Arg Arg Trp Asp Ser Arg Gly Arg Leu Ile Ala Leu Glu Asn Glu Asn		800
	805	810
Gly Glu Ala Tyr Gln Phe Arg Trp Gly Pro Asp Ser Leu Leu Glu		815
	820	825
Glu Val Gly Leu Asp Gly Val Ala Ser Gln Tyr Arg Tyr Asp Ala Cys		830
	835	840
Gly Arg Thr Ile Ala Arg Thr Phe Ala Ala Gly His Pro Glu Ala Ile		845
850	855	860

Thr His Ala Phe Ala Trp Ser Ala Ser Gly Gln Leu Val Ala Arg Thr
 865 870 875 880
 Thr Pro Glu Gly Gln Thr Arg Tyr His Tyr Thr Pro Ser Gly Leu Leu
 885 890 895
 Ser Arg Ile Gly Leu His Pro Ala Leu Ser Ala Asp Ala Trp Ser Ala
 900 905 910
 Glu Ala Glu Gln Glu Leu Val Phe Glu Tyr Asp Ala Leu Gly Arg Val
 915 920 925
 Thr Arg Glu Thr Gly Glu His Gly Glu Leu Ala Trp Glu Tyr Asp Ala
 930 935 940
 Leu Gly Asn Arg Thr Ser Val Thr Leu Pro Asp Gly Arg Glu Leu Lys
 945 950 955 960
 Gln Phe Tyr Tyr Gly Ser Gly His Leu Leu Ser Ile Ala Leu Asp Lys
 965 970 975
 Leu Ser Val Ser Asp Phe Thr Arg Asp Glu Leu His Arg Glu Thr Ser
 980 985 990
 Arg Thr Gln Gly Leu Leu Thr Thr Arg Ser Glu Tyr Asp Arg Leu Gly
 995 1000 1005
 Arg Leu His Arg Arg Asp Val Phe Thr Gly Asn Ala Gln Arg Pro Ser
 1010 1015 1020
 Pro Arg Arg Trp Ser Arg Arg Trp Asp Tyr Asp Tyr Arg Asn Asn Leu
 1025 1030 1035 1040
 Val Arg Glu Glu Arg Asp Asp Asn Pro Phe Asn Trp Tyr Arg Trp Gln
 1045 1050 1055
 Tyr Asp Ser Ala Gly Arg Leu Leu Val Gln Asp Gly Thr Leu Pro Gly
 1060 1065 1070
 Gln Glu Gln Trp Arg Trp Asp Ala Ala Gly Asn Pro Leu Glu Gly Ser
 1075 1080 1085
 Val Glu Lys Val Thr His Asn Arg Leu Thr Gln Leu Asn Gly Ile Arg
 1090 1095 1100
 Trp Arg Tyr Asp Val His Gly Arg Thr Val Glu Lys Asp Asn Gly Gln
 1105 1110 1115 1120
 Thr Arg Trp His Tyr Arg Tyr Asp Gly Glu His Arg Leu Thr Glu Val
 1125 1130 1135
 Ile Ser Gln Pro Arg Asp Arg Asn Arg Pro Gln Thr Gln Val Ser Phe
 1140 1145 1150
 Arg Tyr Asp Pro Leu Gly Arg Arg Ile Ser Lys Thr Arg Arg Gln Met
 1155 1160 1165
 Leu Gly Gly Gln Pro Ala Gly Lys Pro Val Thr Thr Arg Phe Val Trp
 1170 1175 1180
 Glu Gly Phe Arg Leu Leu Gln Glu Val His Gly Glu Val Pro Leu Thr
 1185 1190 1195 1200
 Tyr Val Tyr Ser Asp Gln Asp Ser Tyr Asp Pro Leu Ala Arg Ile Asp
 1205 1210 1215
 Gly Val Asp Ala Pro Glu Ile Phe Trp Phe His Cys Gln Pro Asn Gly
 1220 1225 1230
 Thr Pro Glu Arg Met Thr Asp Ser Glu Gly Gln Val Arg Trp Val Gly
 1235 1240 1245
 Val Asn Ser Ala Trp Gly Lys Leu Leu Arg Glu Ser Glu Thr Gln Val
 1250 1255 1260
 Ser Gly Tyr Ser Gln Asn Leu Arg Met Gln Gly Gln Tyr Leu Asp Arg
 1265 1270 1275 1280
 Glu Thr Gly Leu His Tyr Asn Leu Phe Arg Tyr Tyr Asp Pro Asp Cys
 1285 1290 1295
 Gly Leu Phe Thr Gln Gln Asp Pro Ile Gly Leu Ala Gly Gly Ile Asn
 1300 1305 1310
 Leu Tyr Gln Tyr Ala Pro Asn Ala Leu Gly Trp Val Asp Pro Trp Gly
 1315 1320 1325
 Leu Lys Cys Gly Phe Ser Gln Lys Asp Arg Ile Thr Gln Arg Trp Val
 1330 1335 1340
 Asp Arg Leu Thr Gly Lys Lys Pro Ala Asp Val His Asn Ile Leu Thr

1345		1350		1355		1360
Ser Lys Gly Trp	Thr Arg Thr Tyr Pro Gln Ala Asn Lys Pro Gly Ala					
	1365		1370			1375
Ile Gln His Ile	Gln Tyr Val Lys Thr Thr Lys Ser Gly Thr Thr Tyr					
	1380		1385			1390
Lys Leu Asp Tyr	His Pro Gly Gly Thr Pro Thr Gln Pro Asn Ile His					
	1395		1400			1405
Gly Asn Asp Tyr	Trp Lys Val Tyr Arg Glu Val Asp Gly Ala Asp Val					
	1410		1415			1420
Val Tyr Gly Arg	Ile Gly His Gly Glu Phe Lys Asn Tyr Asp Leu Ile					
1425		1430		1435		1440
Thr Asp Ser Pro	Val Tyr Val Asp Gly Val Leu Leu Asn Gly Gly Val					
	1445		1450			1455

<210> 6754

<211> 761

<212> PRT

<213> Enterobacter cloacae

<400> 6754

Asn Ala Thr Val	Thr Cys Val Ser Ser Asn Ala Gln Thr Val Arg Arg		
1	5	10	15
Leu Ser Lys Pro	Cys Trp Val Ser Ile Lys Leu Asn Leu Gln Lys Gln		
	20	25	30
Leu Thr Gly Ser	Tyr Arg Val Trp Asp Tyr Cys Val Gln Tyr Gln Glu		
	35	40	45
Ser Ser Leu Asp	Phe Ile Ser Arg Leu Met Glu Leu Glu Gly Ile Ala		
	50	55	60
Tyr Tyr Phe Arg	His Glu Ala Asp Lys His Thr Leu Val Leu Thr Asp		
65	70	75	80
Ala Ala Thr Gln	His Gln Pro Phe Ser Gly Tyr Glu Val Ile Pro Tyr		
	85	90	95
His Gln Thr Pro	Ser Gly Gly Ser Thr Asp Glu Glu Gly Ile Ser Gln		
	100	105	110
Trp Ala Leu Glu	Asp Cys Val Thr Pro Gly Ile Tyr Ser Leu Asp Asp		
	115	120	125
Tyr Asp Phe Arg	Lys Pro Asn Ala Trp Leu Phe Gln Ala Gln Gln Asn		
	130	135	140
Pro Ala Ser Pro	Lys Pro Gly Ser Ile Asp Val Tyr Asp Trp Pro Gly		
145	150	155	160
Arg Phe Val Glu	Thr Gly His Ala Glu Phe Tyr Ala Arg Ile Arg Gln		
	165	170	175
Glu Arg Trp Gln	Val Glu His Gln Gln Ile Gln Ala Thr Ala Thr Ala		
	180	185	190
Ala Gly Ile Ala	Pro Gly His Ile Phe Thr Leu Thr Asn Ala Pro Phe		
	195	200	205
Phe Ser Asp Asn	Gly Glu Tyr Leu Val Thr Ala Ala Gly Tyr His Phe		
	210	215	220
Glu Glu Asn Arg	Tyr Ala Ser Gly Glu Gly Glu Thr Ile His Arg Thr		
225	230	235	240
Asp Phe Thr Val	Ile Pro Ala Ser Val Ser Tyr Arg Pro Ala Gln Ser		
	245	250	255
Thr Ala Trp Pro	Arg Thr Tyr Gly Pro Gln Thr Ala Lys Val Val Gly		
	260	265	270
Pro Gln Gly Glu	Ser Ile Trp Thr Asp Lys Tyr Gly Arg Val Lys Val		
	275	280	285
Lys Phe His Trp	Asp Arg Leu Ala Lys Gly Asp Asp Thr Ser Ser Cys		
	290	295	300
Trp Val Arg Val	Ser Ser Ala Trp Ala Gly Gln Gly Tyr Gly Gly Val		

305					310					315			320		
Gln	Ile	Pro	Arg	Val	Gly	Asp	Glu	Val	Val	Val	Asp	Phe	Ile	Asn	Gly
				325					330					335	
Asp	Pro	Asp	Arg	Pro	Ile	Ile	Thr	Gly	Arg	Val	Tyr	Asn	Asp	Ala	Ser
			340					345					350		
Met	Pro	Pro	Trp	Ala	Leu	Pro	Ala	Ala	Ala	Thr	Gln	Met	Gly	Phe	Met
		355					360					365			
Ser	Arg	Thr	Lys	Asp	Gly	Ser	Val	Asp	Asn	Ala	Asn	Ala	Leu	Arg	Phe
	370				375				380						
Glu	Asp	Lys	Ala	Gly	Ala	Glu	Gln	Val	Trp	Ile	Gln	Ala	Glu	Arg	Asn
385				390					395					400	
Leu	Asp	Thr	Ser	Val	Lys	Asn	Asp	Glu	Thr	His	Ser	Val	Gly	Gly	Ala
				405				410						415	
Arg	Ser	His	Tyr	Val	Lys	Lys	Asn	Glu	Leu	His	Arg	Val	Glu	Ala	Asn
			420					425					430		
Gln	Ile	Gln	Ala	Val	Lys	Gly	Gly	Thr	Glu	Ile	Leu	Thr	Gly	Lys	Gly
		435				440						445			
Lys	Leu	Asp	Ala	Ala	Val	Glu	Gln	Tyr	Val	Ile	Ala	Ser	Gly	Thr	Lys
	450					455					460				
Leu	Arg	Leu	Val	Ser	Gly	Glu	Ser	Ala	Ile	Glu	Leu	Asn	Ala	Asn	Gly
465				470					475					480	
Lys	Ile	Asn	Leu	Ile	Gly	Lys	Glu	Phe	Asn	Phe	Phe	Val	Glu	Gly	Asp
				485				490						495	
Gly	Tyr	Ile	Thr	Thr	Gly	Gly	Lys	Leu	His	Leu	Asn	Thr	Ser	Gly	Thr
			500					505					510		
Lys	Pro	Gly	Thr	Thr	Ala	Pro	Gly	Ser	Gly	His	Lys	Gly	Asp	Ile	Asp
		515					520					525			
Ala	Ala	Val	Gln	Glu	Lys	Phe	Ser	Pro	Asn	Lys	Ser	Ala	Lys	Asn	Pro
	530					535					540				
Ala	Pro	Ala	Ala	Ser	Ala	Pro	Ala	Ala	Thr	Arg	Pro	Lys	Pro	Thr	Thr
545				550					555						
Lys	Phe	Ala	Ser	Ala	Pro	Pro	Leu	Lys	Gly	Ser	Tyr	Val	Tyr	Gln	Asn
				565					570					575	
Asn	Ser	Tyr	Asn	Ser	Asp	Val	Met	Pro	Phe	Ser	Glu	Asp	Val	Val	Lys
			580				585					590			
Glu	Ile	Asn	Lys	Ser	Pro	Thr	Leu	Gln	Thr	Gln	Leu	Lys	Asp	Leu	Lys
	595					600					605				
Asp	Lys	Gly	Trp	Ala	Ile	Gln	Pro	Gly	Ala	Ala	Gly	Gly	Gly	Ser	Tyr
	610					615					620				
Ala	Asp	Thr	Asn	Asn	Lys	Leu	Ile	Val	Met	Asp	Pro	Glu	His	Met	Glu
625				630					635					640	
Asp	Thr	Ala	Thr	Thr	Val	Gln	Thr	Leu	Ala	His	Glu	Ala	Gly	His	Ala
				645					650					655	
Thr	Tyr	Pro	Val	Ala	Val	Asp	Ser	Ser	Ser	Lys	Glu	Ser	Phe	Ile	Asn
			660				665						670		
Ser	Gln	Leu	Met	Asp	Glu	Gly	Gly	Ala	Thr	Leu	Asn	Asn	Ile	Lys	Ile
	675					680					685				
Gln	Arg	Glu	Ile	Leu	Ala	Asn	Gly	Gly	Ile	Asp	Ile	Asp	Ile	Ala	Gly
	690					695					700				
Ser	Ala	Glu	Asn	Leu	Lys	Ala	Tyr	Asn	Ser	Ala	Tyr	Asp	Lys	Met	Val
705				710					715					720	
Ser	Gly	Glu	Leu	Ser	Arg	Ile	Asp	Ala	Ala	Lys	Ala	Ile	Gly	Lys	Val
				725				730						735	
Tyr	Gly	Lys	Gly	Glu	Ile	Ala	Ser	Gly	Thr	Asn	Leu	Asn	Tyr	Asn	Asp
			740					745					750		
Tyr	Tyr	Gly	Gly	Phe	Tyr	Gly	Lys								
		755					760								

<210> 6755

<211> 357

<212> PRT

<213> Enterobacter cloacae

<400> 6755

Lys Pro Cys Ile Ile Gly Ser Thr Val Leu Phe Ile Ala Cys Ser Thr
 1 5 10 15
 Ala Ala Pro Ser Thr Leu Met Ala Thr Ser Ala Ala Pro Lys Leu Pro
 20 25 30
 Pro Asn Thr Ile Ser Pro Arg Ala Asn Ile Ser Gly Glu Ala Asn His
 35 40 45
 Ser Ala Thr Leu Arg Pro Ser Ile Pro Thr Thr Ala Gln His Met Val
 50 55 60
 Val Arg Ile Thr Ala Arg Val Pro Lys Arg Phe Thr Ser Gln Ala Glu
 65 70 75 80
 Gln Arg Met Pro Leu Ile Glu Pro Ile Asp Arg Pro Asn Ser Thr Ile
 85 90 95
 Pro Ile Ser Ala Val Glu Thr Asp Ser Val Ser Arg Ile Ala Gly Val
 100 105 110
 Arg Val Ala Gln Glu Ala Ile Ser Ser Pro Gly Met Lys Lys Asn Ile
 115 120 125
 Asn Ser Ala His Met Arg Arg Cys Arg Ala Leu Arg Gly Glu Val Ser
 130 135 140
 Val Ile Gly Ile Ser Thr Arg Ser Thr Thr Ile Ala Thr Thr Leu Ala
 145 150 155 160
 Thr Leu Cys Thr Phe Val His Lys Leu Asp Glu Asp Phe Met Ser Arg
 165 170 175
 Pro Pro Asn Asp Pro Asn Arg Arg Glu Lys Ile Leu Gln Ala Thr Leu
 180 185 190
 Asp Thr Ile Ala Glu His Gly Ile His Ala Val Thr His Arg Lys Ile
 195 200 205
 Ala Thr Cys Ala Gly Val Pro Leu Gly Ser Met Thr Tyr Tyr Phe Asp
 210 215 220
 Gly Met Glu Ser Leu Leu Glu Glu Ala Phe Thr Trp Phe Thr Gln Gln
 225 230 235 240
 Met Ser Gln Gln Tyr Arg Asp Phe Phe Ala Gly Val Thr Gly Arg Glu
 245 250 255
 Arg Ala Cys Glu Ala Ile Thr Thr Leu Ile Asn Ser Ser Ala Val Thr
 260 265 270
 Thr Pro His Asn Met Ala Leu Met Tyr Gln Leu Tyr Ala Phe Met His
 275 280 285
 Arg Ser Ala Ala Leu Lys Thr Val Met Gln Asp Trp Met Lys Met Ser
 290 295 300
 Gln Thr Thr Leu Glu Gln Trp Phe Asp Ser Ala Thr Ala Arg Ala Leu
 305 310 315 320
 Asp Ala Phe Ile Glu Gly Met Thr Leu His Phe Val Thr Asp Arg Ser
 325 330 335
 Pro Leu Thr Arg Glu Glu Ile Arg Val Met Val Gly Arg Ile Ala Gly
 340 345 350
 Glu Asp Thr Val
 355

<210> 6756

<211> 246

<212> PRT

<213> Enterobacter cloacae

<400> 6756

Met Ser Thr Arg Lys Lys Leu Gly Leu Thr Asn Thr Thr Phe Lys Thr
 1 5 10 15
 Val His Gly Leu Asp Ala Pro Gly Gln Phe Ser Thr Ala Arg Asp Met
 20 25 30
 Ala Leu Leu Gly Lys Ala Leu Ile His Asp Val Pro Asp Glu Tyr Ala


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<210> 6757
<211> 414
<212> PRT
<213> Enterobacter cloacae
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<400> 6757															
Arg	Asp	Cys	Met	Ile	Asn	Arg	Ser	Ser	Ser	Gly	Asn	Arg	Leu	Gly	Arg
1				5					10					15	
Gln	Ala	Leu	Leu	Phe	Pro	Leu	Cys	Leu	Val	Leu	Tyr	Glu	Phe	Ser	Thr
			20					25					30		
Tyr	Ile	Gly	Asn	Asp	Met	Ile	Gln	Pro	Gly	Met	Leu	Ala	Val	Val	Glu
		35					40					45			
Gln	Tyr	Asn	Ala	Gly	Ile	Glu	Trp	Val	Pro	Thr	Ser	Met	Thr	Ala	Tyr
	50					55					60				
Leu	Ala	Gly	Gly	Met	Phe	Leu	Gln	Trp	Leu	Leu	Gly	Pro	Leu	Ser	Asp
65					70					75				80	
Arg	Ile	Gly	Arg	Arg	Pro	Val	Met	Leu	Thr	Gly	Val	Val	Trp	Phe	Ile
				85					90					95	
Val	Thr	Cys	Leu	Ala	Thr	Leu	Leu	Ala	Gln	Asn	Ile	Glu	Gln	Phe	Thr
			100					105					110		
Leu	Leu	Arg	Phe	Leu	Gln	Gly	Val	Ser	Leu	Cys	Phe	Ile	Gly	Ala	Val
		115					120					125			
Gly	Tyr	Ala	Ala	Ile	Gln	Glu	Ser	Phe	Glu	Glu	Ala	Val	Cys	Ile	Lys
	130					135					140				
Ile	Thr	Ala	Leu	Met	Ala	Asn	Val	Ala	Leu	Ile	Ala	Pro	Leu	Leu	Gly
145					150					155					160
Pro	Leu	Val	Gly	Ala	Ala	Trp	Val	His	Val	Ala	Pro	Trp	Glu	Gly	Met
				165					170					175	
Phe	Val	Leu	Phe	Ala	Ala	Leu	Ala	Ala	Ile	Ser	Phe	Phe	Gly	Leu	His
			180					185					190		
Arg	Ala	Met	Pro	Glu	Thr	Ala	Thr	Arg	Leu	Gly	Glu	Lys	Leu	Ser	Leu
		195					200					205			
Lys	Glu	Leu	Gly	Arg	Asp	Tyr	Lys	Ala	Val	Leu	Gln	Asn	Gly	Arg	Phe

210	215	220
Val Ala Gly Ala Leu	Ala Thr Gly Phe Val	Ser Leu Pro Leu Leu Ala
225	230	235
Trp Ile Ala Gln Ser	Pro Val Ile Ile Ile	Ser Gly Glu Gln Leu Ser
	245	250
Ser Tyr Glu Tyr Gly	Leu Leu Gln Val	Pro Ile Phe Gly Ala Leu Ile
	260	265
Ile Gly Asn Leu Val	Leu Ala Arg Leu	Thr Ser Arg Arg Thr Val Arg
	275	280
Ser Leu Ile Ile Met	Gly Gly Trp Pro	Ile Ala Ala Gly Leu Ile Ile
	290	295
Ala Ala Val Ala Thr	Val Ala Ser Ser	His Ala Tyr Leu Trp Met Thr
305	310	315
Ala Gly Leu Ser Ile	Tyr Ala Phe Gly	Ile Gly Val Ala Asn Ala Gly
	325	330
Leu Val Arg Leu Thr	Leu Phe Ala Ser	Glu Met Ser Lys Gly Thr Val
	340	345
Ser Ala Ala Met Gly	Met Leu Gln Met	Leu Ile Phe Thr Val Gly Ile
	355	360
Glu Val Ser Lys His	Ala Tyr Ala Phe	Gly Gly Asn Gly Leu Phe Ser
	370	375
Leu Phe Asn Leu Ala	Asn Gly Val Leu	Trp Ile Ala Leu Met Val Val
385	390	395
Phe Leu Lys Asp Lys	Arg Val Gly Asn	Ala Leu Gln Pro
	405	410

<210> 6758

<211> 163

<212> PRT

<213> Enterobacter cloacae

<400> 6758

Gly Asn Tyr Met Ser Thr Pro Ala His Leu Trp Leu Glu Asp Glu Asn
1 5 10 15
Gly Ser Pro Ile Ile Gly Ser Cys Met Met Pro Thr Arg Leu Gly Ser
20 25 30
Ile Glu Leu Lys Ser Phe Ser His Gly Val Thr Ile Pro Ala Asp Pro
35 40 45
Ser Trp Gly Lys Leu Thr Gly Thr Arg Val His Arg Pro Ile Thr Ile
50 55 60
Val Lys Glu Phe Asp Gln Thr Thr Pro Leu Leu Tyr Arg Ala Val Cys
65 70 75 80
Glu Gly Arg Val Met Lys Lys Gly Ile Ile Lys Met Tyr Arg Ile Leu
85 90 95
Glu Ser Gly Ile Glu Ala Glu Tyr Phe Asn Ile Val Met Glu Asn Val
100 105 110
Lys Phe Thr Thr Val Ala Pro Phe Met Thr Pro Asn Gly Met Ser Ser
115 120 125
Thr His Leu Glu Thr Leu Glu Leu Arg Tyr Glu Ala Ile Ser Trp Lys
130 135 140
Tyr Thr Glu Gly Asn Ile Ile Tyr Arg Asp Thr Trp Asn Asp Arg Cys
145 150 155 160
Cys Ala

<210> 6759

<211> 431

<212> PRT

<213> Enterobacter cloacae

<400> 6759

Lys Met Phe Leu Ala Gly Ala Ile Phe Leu Phe Thr Leu Val Leu Val
 1 5 10 15
 Ile Trp Gln Pro Lys Gly Leu Ser Ile Gly Trp Ser Ala Thr Ile Gly
 20 25 30
 Ala Val Leu Ala Leu Met Ser Gly Val Ile His Ile Asn Asp Ile Pro
 35 40 45
 Val Val Trp Asn Ile Val Trp Asn Ala Thr Ala Thr Phe Ile Ala Val
 50 55 60
 Ile Ile Ile Ser Leu Leu Leu Asp Glu Ser Gly Phe Phe Glu Trp Ala
 65 70 75 80
 Ala Leu His Val Ala Arg Trp Gly Asn Gly Arg Gly Arg Leu Leu Phe
 85 90 95
 Thr Trp Ile Val Leu Leu Gly Ala Ala Val Ala Ala Leu Phe Ala Asn
 100 105 110
 Asp Gly Ala Ala Leu Ile Leu Thr Pro Ile Val Ile Ala Met Leu Leu
 115 120 125
 Ala Leu Gly Phe Ser Lys Gln Ala Thr Leu Ala Phe Val Met Ala Ala
 130 135 140
 Gly Phe Ile Ala Asp Thr Ala Ser Leu Pro Leu Ile Val Ser Asn Leu
 145 150 155 160
 Val Asn Ile Val Ser Ala Asp Phe Phe Lys Leu Gly Phe Ser Glu Tyr
 165 170 175
 Ala Ser Val Met Ile Pro Val Asp Ile Ala Ala Ile Ala Ala Thr Leu
 180 185 190
 Val Met Leu His Leu Phe Phe Arg Asn Glu Ile Pro Pro Glu Tyr Asp
 195 200 205
 Leu Ala Lys Leu Arg Glu Pro Ala Leu Ala Ile His Asp Leu Pro Thr
 210 215 220
 Phe Arg Thr Gly Trp Ile Val Leu Leu Leu Leu Leu Val Gly Phe Phe
 225 230 235 240
 Val Leu Glu Pro Leu Gly Ile Pro Val Ser Ala Ile Ala Thr Thr Gly
 245 250 255
 Ala Leu Ile Leu Phe Ala Val Ala Lys Arg Gly His Ala Ile Asn Thr
 260 265 270
 Gly Lys Val Leu Arg Gly Ala Pro Trp Gln Ile Val Ile Phe Ser Leu
 275 280 285
 Gly Met Tyr Leu Val Val Tyr Gly Leu Arg Asn Ala Gly Leu Thr Glu
 290 295 300
 Ser Leu Ser Gly Val Leu Asp Tyr Leu Ala Gly Tyr Gly Leu Trp Val
 305 310 315 320
 Thr Thr Leu Gly Thr Gly Phe Ile Thr Ala Phe Leu Ser Ser Ile Met
 325 330 335
 Asn Asn Met Pro Thr Val Leu Ile Gly Ala Leu Ser Ile Glu Gly Ser
 340 345 350
 Ala Ala Thr Gly Leu Val Lys Glu Ala Met Ile Tyr Ala Asn Val Ile
 355 360 365
 Gly Cys Asp Leu Gly Pro Lys Ile Thr Pro Ile Gly Ser Leu Ala Thr
 370 375 380
 Leu Leu Trp Leu His Val Leu Ala Gln Lys Asn Met Thr Ile Thr Trp
 385 390 395 400
 Gly Tyr Tyr Phe Arg Thr Gly Ile Ile Met Thr Leu Pro Val Leu Phe
 405 410 415
 Val Thr Leu Ala Ala Leu Ala Leu Arg Leu Ser Phe Thr Leu
 420 425 430

<210> 6760

<211> 147

<212> PRT

<213> Enterobacter cloacae

<400> 6760

Val Thr Asp Met Ser His Ile Thr Ile Tyr His Asn Pro Ala Cys Gly
 1 5 10 15
 Thr Ser Arg Asn Thr Leu Glu Met Ile Arg Asn Ser Gly Thr Glu Pro
 20 25 30
 Glu Ile Ile Leu Tyr Leu Glu Asn Pro Pro Ser Arg Asp Glu Leu Thr
 35 40 45
 Arg Leu Ile Ala Asp Met Gly Ile Ser Ile Gly Asp Leu Leu Arg Lys
 50 55 60
 Asn Val Glu Pro Tyr Glu Gln Leu Gly Leu Ser Gln Gly His Phe Thr
 65 70 75 80
 Asp Asp Gln Leu Ile Asp Phe Met Leu Gln Tyr Pro Ile Leu Ile Asn
 85 90 95
 Arg Pro Ile Val Thr Pro Leu Gly Thr Arg Leu Cys Arg Pro Ser
 100 105 110
 Glu Val Val Leu Asp Ile Leu Pro Asp Ala Gln Lys Gly Ala Phe Thr
 115 120 125
 Lys Glu Asp Gly Glu Val Val Val Asp Ala Asn Gly Lys Lys Ile Ser
 130 135 140
 Arg Gln
 145

<210> 6761

<211> 459

<212> PRT

<213> Enterobacter cloacae

<400> 6761

Ile Pro Cys Ser Ala Met Val Ser Ser Val Ala Trp Ser Ile Phe Ser
 1 5 10 15
 Arg Arg Leu Gly Ser Phe Gly Gly Leu Ile Lys Ser Ser Ser Ser
 20 25 30
 Leu Cys Thr Asn Val His Lys Val Ala Ser Val Val Ala Ile Val Val
 35 40 45
 Leu Leu Val Leu Ile Pro Met Thr Leu Thr Ser Pro Arg Lys Ala Leu
 50 55 60
 His Leu Arg Met Trp Ala Leu Phe Met Phe Phe Phe Ile Pro Gly Leu
 65 70 75 80
 Leu Met Ala Ser Trp Ala Thr Arg Thr Pro Ala Ile Arg Asp Thr Leu
 85 90 95
 Ser Val Ser Thr Ala Glu Met Gly Ile Val Leu Phe Gly Leu Ser Ile
 100 105 110
 Gly Ser Met Ser Gly Ile Leu Cys Ser Ala Trp Leu Val Lys Arg Phe
 115 120 125
 Gly Thr Arg Ala Val Ile Arg Thr Thr Met Cys Cys Ala Val Val Gly
 130 135 140
 Met Leu Gly Leu Ser Val Ala Leu Trp Phe Ala Ser Pro Leu Met Phe
 145 150 155 160
 Ala Leu Gly Leu Met Val Phe Gly Gly Ser Phe Gly Ala Ala Glu Val
 165 170 175
 Ala Ile Asn Val Glu Gly Ala Ala Val Glu Gln Ala Met Asn Lys Thr
 180 185 190
 Val Leu Pro Met Met His Gly Phe Tyr Ser Leu Gly Thr Leu Ala Gly
 195 200 205
 Ala Gly Val Gly Met Ala Leu Thr Ala Leu Gly Ile Ala Ala Asn Val
 210 215 220
 His Ile Leu Leu Ala Ala Leu Val Cys Ile Ile Pro Ile Leu Thr Gly
 225 230 235 240
 Ile Arg Ala Ile Pro Ala Gly Thr Gly Gln His Ala Thr Asp Glu Gln
 245 250 255
 Lys Ser Ala Glu Lys Gly Leu Pro Phe Tyr Arg Asp Phe Gln Leu Met
 260 265 270

Leu Ile Gly Val Val Val Leu Ala Met Ala Phe Ala Glu Gly Ser Ala
 275 280 285
 Asn Asp Trp Leu Pro Leu Leu Met Val Asp Gly His Gly Phe Ser Pro
 290 295 300
 Thr Ser Gly Ser Leu Ile Tyr Ala Gly Phe Thr Leu Gly Met Thr Val
 305 310 315 320
 Gly Arg Phe Thr Gly Gly Trp Phe Ile Asp Arg Tyr Ser Arg Val Ala
 325 330 335
 Val Val Arg Ala Ser Ala Leu Leu Gly Gly Leu Gly Ile Ala Met Ile
 340 345 350
 Ile Phe Val Asp Val Asp Trp Ile Ala Gly Val Ser Val Ile Leu Trp
 355 360 365
 Gly Leu Gly Ala Ser Leu Gly Phe Pro Leu Thr Ile Ser Ala Ala Ser
 370 375 380
 Asp Thr Gly Pro Asp Ala Pro Thr Arg Val Ser Val Val Ala Thr Thr
 385 390 395 400
 Gly Tyr Leu Ala Phe Leu Val Gly Pro Pro Leu Leu Gly Phe Leu Gly
 405 410 415
 Glu His Tyr Gly Leu Arg Ser Ala Met Leu Val Val Leu Gly Leu Val
 420 425 430
 Ile Ile Ala Ala Leu Val Ala Arg Ala Val Ala Lys Pro Glu Ala Glu
 435 440 445
 Thr Thr Ser Met Glu Lys Gly Tyr Glu Arg
 450 455

<210> 6762

<211> 247

<212> PRT

<213> Enterobacter cloacae

<400> 6762

Trp Asp Ser Gly Arg Ser Cys Ala Ala Arg Ile Phe Ser Leu Thr Thr
 1 5 10 15
 Cys Gly Pro Gly Gly Gly Ser Gly Phe Pro Arg Cys Trp Phe Thr Gly
 20 25 30
 Trp Phe Pro Pro Gly Leu Leu Lys Ser Asn Glu Ile Met Leu Glu Asn
 35 40 45
 Leu Asn Tyr Glu Leu Phe Tyr Leu Leu Asn Ala Thr Pro Ser Ser Pro
 50 55 60
 Glu Trp Met Ile Asp Leu Ala Thr Phe Ile Ala Lys Asp Val Ile Ser
 65 70 75 80
 Ile Val Pro Ala Leu Ala Val Ile Leu Trp Leu Trp Gly Pro Arg Thr
 85 90 95
 Gln Val Thr Ala Gln Arg His Leu Val Ile Lys Met Ala Met Ala Ile
 100 105 110
 Gly Val Ser Val Leu Ala Ser Tyr Val Leu Gly His Ala Phe Pro His
 115 120 125
 Asp Arg Pro Phe Val Asp Arg Val Gly Tyr Asn Phe Leu His His Ala
 130 135 140
 Pro Asp Asp Ser Phe Pro Ser Asp His Gly Thr Val Ile Phe Thr Phe
 145 150 155 160
 Ala Leu Ala Phe Leu Phe Trp His Arg Leu Trp Ser Gly Val Val Leu
 165 170 175
 Met Gly Val Ala Val Ala Ile Ala Trp Ser Arg Val Tyr Leu Gly Val
 180 185 190
 His Trp Pro Leu Asp Met Val Gly Gly Phe Leu Val Gly Leu Met Gly
 195 200 205
 Cys Val Ser Ala Ala Ile Leu Trp Ser Leu Phe Gly Pro Ala Leu Tyr
 210 215 220
 Arg Gly Leu Ser Gln Ala Tyr Arg Val Leu Phe Ala Leu Pro Ile Arg
 225 230 235 240

Lys Gly Trp Ile Arg Asp
245

<210> 6763

<211> 143

<212> PRT

<213> Enterobacter cloacae

<400> 6763

Arg	Val	Leu	Gln	Ser	Leu	Phe	Tyr	Pro	Ser	Cys	Tyr	Leu	Leu	Leu	Leu
1				5					10					15	
Ser	Phe	Thr	Thr	Ile	Lys	Tyr	Asp	Leu	Met	His	Met	Lys	Gln	Asn	Ile
			20					25					30		
Gln	Asp	Asp	Arg	Met	Leu	His	Pro	Leu	Gln	Leu	Phe	Lys	Thr	Leu	Ser
		35					40					45			
Asp	Glu	Thr	Arg	Leu	Ser	Ile	Val	Met	Leu	Leu	Arg	Glu	Ala	Gly	Glu
	50					55					60				
Leu	Cys	Val	Cys	Asp	Leu	Cys	Ser	Ala	Thr	Asn	Glu	Pro	Gln	Pro	Lys
65					70					75					80
Val	Ser	Arg	His	Met	Ala	Leu	Leu	Arg	Glu	Ala	Gly	Leu	Val	Ile	Asp
			85						90					95	
Arg	Arg	Glu	Gly	Lys	Trp	Ile	Tyr	Tyr	Arg	Leu	Ser	Pro	Asn	Met	Pro
			100					105					110		
Ala	Trp	Ala	Ala	Thr	Val	Ile	Asp	Asn	Ser	Trp	Asn	Cys	Leu	Arg	Glu
		115					120					125			
Glu	Thr	Arg	Met	Lys	Leu	Lys	Asn	Arg	Leu	Pro	Gly	Ser	Cys		
	130						135					140			

<210> 6764

<211> 295

<212> PRT

<213> Enterobacter cloacae

<400> 6764

Ser	Leu	Leu	Pro	Pro	Trp	Trp	Arg	Glu	Arg	Trp	Gln	Asn	Arg	Lys	Gln
1				5					10					15	
Lys	Gln	Arg	Gln	Trp	Arg	Arg	Asp	Met	Ser	Val	Lys	Leu	Ile	Ala	Val
			20					25					30		
Asp	Met	Asp	Gly	Ser	Phe	Leu	Ser	Asp	Ala	Lys	Thr	Tyr	Asn	Arg	Ala
		35					40					45			
Arg	Phe	Leu	Ala	Gln	Tyr	Ala	Arg	Met	Lys	Ala	Gln	Gly	Ile	Arg	Phe
	50				55						60				
Val	Val	Ala	Ser	Gly	Asn	Gln	Tyr	Tyr	Gln	Leu	Ile	Ser	Phe	Phe	Pro
65					70					75					80
Glu	Ile	Ala	His	Glu	Ile	Ala	Phe	Val	Ala	Glu	Asn	Gly	Gly	Trp	Val
			85						90					95	
Val	Asp	Ala	Gly	Glu	Asp	Val	Phe	Asn	Gly	Glu	Leu	Ser	Lys	Glu	His
			100					105					110		
Phe	Leu	Thr	Val	Ala	Thr	Leu	Leu	Asn	Asp	Val	Pro	Gly	Ile	Glu	Ile
		115					120					125			
Ile	Ala	Cys	Gly	Lys	Asn	Ser	Ala	Tyr	Thr	Leu	Lys	Thr	Tyr	Asn	Asp
	130						135					140			
Leu	Phe	Lys	Glu	Ile	Ala	Ala	Lys	Tyr	Tyr	His	Arg	Leu	Glu	Ser	Val
145					150					155					160
Ser	Ser	Phe	Asp	Asn	Leu	Asn	Asp	Ile	Phe	Phe	Lys	Phe	Gly	Leu	Asn
			165						170					175	
Val	Ser	Asp	Asp	Glu	Ile	Pro	Arg	Ile	Gln	Ala	Leu	Leu	His	Glu	Lys
			180					185					190		
Leu	Gly	Asp	Ile	Met	Val	Pro	Val	Thr	Thr	Gly	His	Gly	Ser	Ile	Asp
		195					200					205			
Leu	Ile	Ile	Pro	Gly	Val	His	Lys	Ala	Asn	Gly	Leu	Arg	Ile	Leu	Gln

210		215		220
Ala Arg Trp Gly Ile Glu Asp Ser Glu Val Val Ala Phe Gly Asp Ser				
225		230		235
Gly Asn Asp Val Glu Met Leu Arg Gln Ala Gly Phe Gly Phe Ala Met				
	245		250	255
Ala Asn Ala Arg Pro His Ile Lys Ala Val Ala Arg Tyr Glu Ala Pro				
	260		265	270
Asn Asn Asn Asp Glu Gly Val Leu Asp Val Ile Asp Arg Val Leu Asp				
	275		280	285
Gly Glu Ala Pro Phe Asn				
290		295		

<210> 6765

<211> 267

<212> PRT

<213> Enterobacter cloacae

<400> 6765

Ala Pro Ala Leu Arg Gly Leu Thr Phe Leu Ala Arg Gly Ser Met Glu				
1	5		10	15
Thr Arg Arg Asp Arg Ile Ala Gln Leu Leu Gln Ala Leu Lys Arg				
	20		25	30
Ser Asp Lys Leu His Leu Lys Glu Ala Ala Thr Leu Leu Gly Val Ser				
	35		40	45
Glu Met Thr Ile Arg Arg Asp Leu Asn Asn Asp Ser Ala Pro Val Val				
	50		55	60
Leu Leu Gly Gly Tyr Ile Val Leu Glu Pro Arg Ser Ala Ser His Tyr				
	65		70	75
Leu Leu Ser Asp Gln Lys Thr Arg Leu Val Glu Glu Lys Arg Lys Ala				
	85		90	95
Ala Arg Leu Ala Ala Ser Leu Val Gln Pro His Gln Thr Leu Phe Phe				
	100		105	110
Asp Cys Gly Thr Thr Thr Pro Trp Ile Ile Glu Ala Ile Asn Ser Thr				
	115		120	125
Val Pro Phe Thr Ala Val Cys Tyr Ser Leu Asn Thr Phe Leu Ala Leu				
	130		135	140
Gln Glu Lys Pro Ala Cys Arg Val Ile Leu Cys Gly Gly Glu Phe His				
	145		150	155
Ala Ser Asn Ala Ile Phe Lys Pro Leu Asn Ile Gln Asp Thr Leu Ser				
	165		170	175
Asn Val Cys Pro Asp Ile Ala Phe Tyr Ser Ala Ala Gly Val Asn Val				
	180		185	190
Lys Gln Gly Ala Thr Cys Phe Asn Leu Glu Glu Leu Pro Val Lys Gln				
	195		200	205
Trp Ala Leu Asn Ala Ala Gln Gln His Val Leu Val Val Asp His Ser				
	210		215	220
Lys Phe Gly Lys Val Arg Pro Ala Arg Met Gly Glu Leu Ser Arg Phe				
	225		230	235
Asp Ala Ile Val Ser Asp Cys Arg Pro Asp Asp Glu Leu Val Ala Tyr				
	245		250	255
Ala Lys Ala Gln Gln Val Lys Leu Met Tyr				
	260		265	

<210> 6766

<211> 136

<212> PRT

<213> Enterobacter cloacae

<400> 6766

Gly Phe Thr Glu Lys Asp Lys Val Met Arg His Arg Lys Ser Gly Arg				
1	5		10	15

Gln Leu Asn Arg Asn Ser Ser His Arg Gln Ala Met Phe Arg Asn Met
 20 25 30
 Ala Gly Ser Leu Val Arg His Glu Ile Ile Lys Thr Thr Leu Pro Lys
 35 40 45
 Ala Lys Glu Leu Arg Arg Val Val Glu Pro Leu Ile Thr Leu Ala Lys
 50 55 60
 Thr Asp Ser Val Ala Asn Arg Arg Leu Ala Phe Ala Arg Thr Arg Asp
 65 70 75 80
 Asn Glu Ile Val Ala Lys Leu Phe Asn Glu Leu Gly Pro Arg Phe Ala
 85 90 95
 Ser Arg Ala Gly Gly Tyr Thr Arg Ile Leu Lys Cys Gly Phe Arg Ala
 100 105 110
 Gly Asp Asn Ala Pro Met Ala Tyr Ile Glu Leu Val Asp Arg Ser Glu
 115 120 125
 Lys Ala Glu Ala Ala Ala Glu
 130 135

<210> 6767

<211> 162

<212> PRT

<213> Enterobacter cloacae

<400> 6767

Gly Gly His Ala Met Phe Asp Val Leu Met Tyr Leu Phe Glu Thr Tyr
 1 5 10 15
 Ile His Asn Glu Ala Glu Met Gln Val Asp Gln Asp Lys Leu Thr Arg
 20 25 30
 Asp Leu Thr Asp Ala Gly Phe Glu Arg Glu Asp Ile Tyr Asn Ala Leu
 35 40 45
 Met Trp Leu Asp Lys Leu Ala Asp Tyr Gln Asp Gly Leu Ala Glu Pro
 50 55 60
 Met Gln Leu Ala Ser Asp Pro Leu Ser Val Arg Ile Tyr Thr Ala Glu
 65 70 75 80
 Glu Cys Glu Arg Leu Asp Ala Ser Cys Arg Gly Phe Ile Leu Phe Leu
 85 90 95
 Glu Gln Ile Gln Val Leu Asn Leu Glu Thr Arg Glu Met Val Ile Glu
 100 105 110
 Arg Val Met Ala Leu Asp Thr Ala Glu Phe Glu Leu Glu Asp Leu Lys
 115 120 125
 Trp Val Ile Leu Met Val Leu Phe Asn Ile Pro Gly Cys Glu Asn Ala
 130 135 140
 Tyr Gln Gln Met Glu Glu Leu Leu Phe Glu Val Asn Glu Gly Met Leu
 145 150 155 160
 His

<210> 6768

<211> 209

<212> PRT

<213> Enterobacter cloacae

<400> 6768

Asn Ala Phe Ala Pro Val Asn Asn Val Glu Ser Arg Phe Arg Arg Ile
 1 5 10 15
 Lys Ser Val Asn Asn Asn Leu Pro Ser Gly Ser Ile Ala Gln Ala Val
 20 25 30
 Glu Ile Leu Lys Lys Glu Glu Val Ile Ala Tyr Pro Thr Glu Ala Val
 35 40 45
 Phe Gly Val Gly Cys Asp Pro Asp Ser Glu Val Ala Val Asn Arg Leu
 50 55 60
 Leu Ala Leu Lys Gln Arg Pro Val Glu Lys Gly Leu Ile Leu Ile Ala

65					70					75				80	
Ala	Asn	Tyr	Ala	Gln	Leu	Lys	Pro	Tyr	Ile	Asp	Asp	Ser	Met	Leu	Thr
				85					90					95	
Pro	Ala	Gln	Arg	Glu	Thr	Ile	Phe	Ser	Ala	Trp	Pro	Gly	Pro	Val	Thr
			100					105					110		
Phe	Val	Phe	Pro	Ala	Gln	Pro	Thr	Thr	Pro	Arg	Trp	Leu	Thr	Gly	Arg
		115					120					125			
Phe	Asp	Ser	Leu	Ala	Val	Arg	Val	Thr	Asp	His	Pro	Leu	Val	Val	Glu
	130					135					140				
Leu	Cys	Gln	Ala	Phe	Gly	Lys	Pro	Leu	Val	Ser	Thr	Ser	Ala	Asn	Leu
145					150					155					160
Thr	Gly	Leu	Pro	Pro	Cys	Arg	Thr	Thr	Glu	Glu	Val	Leu	Ala	Gln	Phe
				165					170					175	
Gly	Ser	Asp	Phe	Pro	Val	Ala	Val	Gly	Glu	Thr	Gly	Gly	Arg	Leu	Asn
			180					185					190		
Pro	Ser	Glu	Ile	Arg	Asp	Ala	Leu	Thr	Gly	Glu	Arg	Phe	Arg	Gln	Gly
		195					200					205			

<210> 6769

<211> 122

<212> PRT

<213> Enterobacter cloacae

<400> 6769

Glu	Cys	Ile	Val	Ala	Arg	Ile	Ala	Gly	Ile	Asn	Ile	Pro	Asp	Gln	Lys
1				5				10						15	
His	Ala	Val	Ile	Ala	Leu	Thr	Ser	Ile	Tyr	Gly	Val	Gly	Lys	Thr	Arg
			20					25					30		
Ser	Lys	Ala	Ile	Leu	Ala	Ala	Ala	Gly	Ile	Ala	Glu	Asp	Val	Lys	Ile
		35					40					45			
Ser	Glu	Leu	Ser	Glu	Glu	Gln	Ile	Asp	Thr	Leu	Arg	Asp	Glu	Val	Ala
	50				55					60					
Lys	Phe	Val	Val	Glu	Gly	Asp	Leu	Arg	Arg	Glu	Ile	Ser	Met	Ser	Ile
65					70				75						80
Lys	Arg	Leu	Met	Asp	Leu	Gly	Cys	Tyr	Arg	Gly	Leu	Arg	His	Arg	Arg
			85					90						95	
Gly	Leu	Pro	Val	Arg	Gly	Gln	Arg	Thr	Lys	Thr	Asn	Ala	Arg	Thr	Arg
			100					105					110		
Lys	Gly	Pro	Arg	Lys	Pro	Ile	Lys	Lys							
		115					120								

<210> 6770

<211> 208

<212> PRT

<213> Enterobacter cloacae

<400> 6770

Lys	Met	Ala	Arg	Tyr	Leu	Gly	Pro	Lys	Leu	Lys	Leu	Ser	Arg	Arg	Glu
1				5				10						15	
Gly	Thr	Asp	Leu	Phe	Leu	Lys	Ser	Gly	Val	Arg	Ala	Ile	Asp	Thr	Lys
			20					25					30		
Cys	Lys	Ile	Glu	Gln	Ala	Pro	Gly	Gln	His	Gly	Ala	Arg	Lys	Pro	Arg
		35					40					45			
Leu	Ser	Asp	Tyr	Gly	Val	Gln	Leu	Arg	Glu	Lys	Gln	Lys	Val	Arg	Arg
	50					55				60					
Ile	Tyr	Gly	Val	Leu	Glu	Arg	Gln	Phe	Arg	Asn	Tyr	Tyr	Lys	Glu	Ala
65					70				75						80
Ala	Arg	Leu	Lys	Gly	Asn	Thr	Gly	Glu	Asn	Leu	Leu	Ala	Leu	Leu	Glu
				85				90						95	

Gly Arg Leu Asp Asn Val Val Tyr Arg Met Gly Phe Gly Ala Thr Arg
 100 105 110
 Ala Glu Ser Arg Gln Leu Val Ser His Lys Ala Ile Met Val Asn Gly
 115 120 125
 Arg Val Val Asn Ile Ala Ser Tyr Gln Val Lys Ala Asn Asp Val Val
 130 135 140
 Ser Ile Arg Glu Lys Ala Lys Lys Gln Ser Arg Val Lys Ala Ala Leu
 145 150 155 160
 Glu Leu Ala Glu Gln Arg Glu Lys Pro Thr Trp Leu Glu Val Asp Ala
 165 170 175
 Gly Lys Met Glu Ser Thr Phe Lys Arg Gln Pro Glu Arg Pro Asp Leu
 180 185 190
 Ser Ala Asp Ile Asn Glu His Leu Ile Val Glu Leu Tyr Ser Lys
 195 200 205

<210> 6771

<211> 153

<212> PRT

<213> Enterobacter cloacae

<400> 6771

Lys Val Asn Thr Lys Asn Lys Gln Gly Val Ala Met Tyr Arg Ile Gly
 1 5 10 15
 Glu Leu Ala Lys Leu Ala Asn Val Thr Pro Asp Thr Ile Arg Tyr Tyr
 20 25 30
 Glu Lys Gln Gln Met Ile Asp His Glu Val Arg Thr Glu Gly Gly Phe
 35 40 45
 Arg Leu Tyr Thr Asp Asn Asp Leu Gln Arg Leu Arg Phe Ile Arg Tyr
 50 55 60
 Ala Arg Gln Leu Gly Phe Thr Leu Glu Ser Ile Arg Glu Leu Leu Ser
 65 70 75 80
 Ile Arg Ile Asp Pro Glu His His Thr Cys Gln Glu Ser Lys Ser Ile
 85 90 95
 Val Gln Ala Arg Leu Asp Glu Val Glu Gly Arg Ile Gln Glu Leu Gln
 100 105 110
 Ala Met Gln Arg Ser Leu Gln Arg Leu Asn Asp Pro Cys Cys Gly Thr
 115 120 125
 Ala His Ser Ser Val Tyr Cys Ser Ile Leu Glu Ala Leu Glu Gln Gly
 130 135 140
 Ala Ser Ser Glu Ala Gln Gly Cys
 145 150

<210> 6772

<211> 78

<212> PRT

<213> Enterobacter cloacae

<400> 6772

Leu Cys Ser Gly Glu Met Met Ser Arg Tyr Gln His Thr Lys Gly His
 1 5 10 15
 Ile Lys Asp Asn Ala Ile Glu Ala Leu Leu His Asp Pro Leu Phe Arg
 20 25 30
 Gln Arg Val Glu Lys Asn Lys Lys Gly Lys Gly Ser Tyr Leu Arg Lys
 35 40 45
 Gly Lys His Ala Gln Arg Gly Lys Trp Glu Ala Ser Gly Lys Gln Ala
 50 55 60
 Asn Arg Phe Phe Thr Thr Gly Leu Ser Val Ser Val Ser
 65 70 75

<210> 6773

<211> 102

<212> PRT

<213> Enterobacter cloacae

<400> 6773

```

Pro Ala Asn Val Phe Ala Arg Asp Asn Val Met Glu Thr Tyr Ala Val
1      5      10      15
Phe Gly Asn Pro Ile Ala His Ser Lys Ser Pro Leu Ile His Gln Leu
      20      25      30
Phe Ala Glu Gln Leu Gln Ile Asp His Pro Tyr Gly Arg Val Leu Ala
      35      40      45
Pro Val Asp Ala Phe Leu Pro Thr Leu Asn Ser Phe Phe Val Ala Gly
      50      55      60
Gly Lys Gly Ala Asn Val Thr Val Pro Phe Lys Glu Glu Ala Phe Gly
65      70      75      80
Arg Ala Asp Glu Leu Thr Glu Arg Ala Cys Leu Leu Pro Arg Gly Leu
      85      90      95
Ala Gly Pro Leu Ile Glu
      100

```

<210> 6774

<211> 131

<212> PRT

<213> Enterobacter cloacae

<400> 6774

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Ile Met Ala Lys Ala Pro Val Arg Ala Arg Lys Arg Val Arg Lys Gln
1      5      10      15
Val Ser Asp Gly Val Ala His Ile His Ala Ser Phe Asn Asn Thr Ile
      20      25      30
Val Thr Ile Thr Asp Arg Gln Gly Asn Ala Leu Gly Trp Ala Thr Ala
      35      40      45
Gly Gly Ser Gly Phe Arg Gly Ser Arg Lys Ser Thr Pro Phe Ala Ala
      50      55      60
Gln Val Ala Ala Glu Arg Cys Ala Glu Ala Val Lys Glu Tyr Gly Ile
65      70      75      80
Lys Asn Leu Glu Val Met Val Lys Gly Pro Gly Pro Gly Arg Glu Ser
      85      90      95
Thr Val Arg Ala Leu Asn Ala Ala Gly Phe Arg Ile Thr Asn Ile Thr
      100      105      110
Asp Val Thr Pro Ile Pro His Asn Gly Cys Arg Pro Pro Lys Lys Arg
      115      120      125
Arg Val
      130

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<210> 6775

<211> 336

<212> PRT

<213> Enterobacter cloacae

<400> 6775

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Tyr Gln Arg Glu Asp Thr Met Gln Gly Ser Val Thr Glu Phe Leu Lys
1      5      10      15
Pro Arg Leu Val Asp Ile Glu Gln Val Ser Ser Thr His Ala Lys Val
      20      25      30
Thr Leu Glu Pro Leu Glu Arg Gly Phe Gly His Thr Leu Gly Asn Ala
      35      40      45
Leu Arg Arg Ile Leu Leu Ser Met Pro Gly Cys Ala Val Thr Glu
      50      55      60
Val Glu Ile Asp Gly Val Leu His Glu Tyr Ser Thr Lys Glu Ser Val
65      70      75      80
Gln Glu Asp Ile Leu Glu Ile Leu Leu Asn Leu Lys Gly Leu Ala Val

```

				85				90					95				
Arg	Val	Gln	Gly	Lys	Asp	Glu	Val	Ile	Leu	Thr	Leu	Asn	Lys	Ser	Gly		
			100					105					110				
Ile	Gly	Pro	Val	Thr	Ala	Ala	Asp	Ile	Thr	His	Asp	Gly	Asp	Val	Glu		
		115					120					125					
Ile	Val	Lys	Pro	Gln	His	Val	Ile	Cys	His	Leu	Thr	Asp	Glu	Asn	Ala		
	130					135					140						
Ala	Ile	Ser	Met	Arg	Ile	Lys	Val	Gln	Arg	Gly	Arg	Gly	Tyr	Val	Pro		
145					150					155					160		
Ala	Ser	Ala	Arg	Ile	His	Ser	Glu	Glu	Asp	Glu	Arg	Pro	Ile	Gly	Arg		
			165						170					175			
Leu	Leu	Val	Asp	Ala	Cys	Tyr	Ser	Pro	Val	Glu	Arg	Ile	Ala	Tyr	Asn		
			180					185					190				
Val	Glu	Ala	Ala	Arg	Val	Glu	Gln	Arg	Thr	Asp	Leu	Asp	Lys	Leu	Val		
		195					200					205					
Ile	Glu	Met	Glu	Thr	Asn	Gly	Thr	Ile	Asp	Pro	Glu	Glu	Ala	Ile	Arg		
	210					215					220						
Arg	Ala	Ala	Thr	Ile	Leu	Ala	Glu	Gln	Leu	Glu	Ala	Phe	Val	Asp	Leu		
225					230					235					240		
Arg	Asp	Val	Arg	Gln	Pro	Glu	Val	Lys	Glu	Glu	Lys	Pro	Glu	Phe	Asp		
			245						250					255			
Pro	Ile	Leu	Leu	Arg	Pro	Val	Asp	Asp	Leu	Glu	Leu	Thr	Val	Arg	Ser		
		260						265					270				
Ala	Asn	Cys	Leu	Lys	Ala	Glu	Ala	Ile	His	Tyr	Ile	Gly	Asp	Leu	Val		
		275					280					285					
Gln	Arg	Thr	Glu	Val	Glu	Leu	Leu	Lys	Thr	Pro	Asn	Leu	Gly	Lys	Lys		
	290					295					300						
Ser	Leu	Thr	Glu	Ile	Lys	Asp	Val	Leu	Ala	Ser	Arg	Gly	Leu	Ser	Leu		
305					310					315					320		
Gly	Met	Arg	Leu	Glu	Asn	Trp	Pro	Pro	Ala	Ser	Ile	Ala	Asp	Glu			
				325					330					335			

<210> 6776

<211> 170

<212> PRT

<213> Enterobacter cloacae

<400> 6776

Ser	Phe	Arg	Glu	Ser	Arg	Ser	Cys	Cys	Arg	Val	Ile	Cys	Ser	Asn	Val		
1				5					10					15			
Lys	Lys	Pro	Ala	Ser	Ala	Gly	Phe	Phe	Ile	Ser	Ala	Glu	Ser	Pro	Leu		
		20						25					30				
Ile	Tyr	Asn	Val	Cys	Ile	Phe	Ser	Ala	His	Pro	Leu	Glu	Phe	Ile	Met		
	35					40						45					
Trp	Leu	Leu	Asp	Gln	Trp	Ser	Glu	Arg	His	Ile	Cys	Asp	Ala	Gln	Asn		
	50					55					60						
Lys	Gly	Glu	Phe	Glu	Asn	Leu	Pro	Gly	Ser	Gly	Glu	Pro	Leu	Ile	Leu		
65					70					75					80		
Asp	Asp	Asp	Ser	His	Ile	Pro	Pro	Glu	Leu	Arg	Ala	Gly	Tyr	Arg	Leu		
				85					90					95			
Leu	Lys	Asn	Ala	Gly	Cys	Leu	Pro	Pro	Glu	Leu	Gln	Gln	Arg	Asn	Glu		
		100						105					110				
Ala	Val	Glu	Leu	Ala	Asp	Leu	Leu	Lys	Gly	Ile	His	Lys	Asn	Asp	Pro		
	115						120					125					
Arg	Tyr	Ser	Glu	Ile	Ser	Arg	Arg	Leu	Ala	Leu	Ile	Glu	Leu	Lys	Leu		
	130					135					140						
Arg	Gln	Thr	Gly	Met	Asn	Thr	Asp	Phe	Leu	His	Gly	Glu	Tyr	Ser	Glu		
145					150					155					160		
Arg	Leu	Ile	Gln	Lys	Ile	Asn	Lys	Glu									
				165						170							

<210> 6777
 <211> 400
 <212> PRT
 <213> Enterobacter cloacae

<400> 6777

Thr	Asn	Pro	Arg	Ser	Ile	Asp	Ser	Ile	Ser	Asp	Gln	Ser	Gln	Arg	Leu
1				5					10					15	
Leu	Arg	Leu	Leu	Met	Ala	Gly	Lys	Arg	Met	Thr	Ser	Thr	Glu	Ile	Trp
		20					25						30		
Leu	Arg	Leu	Ile	Asn	Ile	Gly	Ser	Leu	Tyr	Gly	Asp	Ala	Met	Leu	Glu
		35					40					45			
Ile	Ala	Gln	Arg	Leu	Leu	Arg	Gln	Ala	Thr	Val	Asp	Ala	Glu	Ala	Val
	50					55					60				
Asn	Ala	Ala	Gly	Leu	Ser	Pro	Lys	His	Ala	Val	Lys	Phe	Phe	Ser	Phe
65					70					75					80
Ser	Glu	Ser	Glu	Leu	Glu	Arg	Ser	Leu	Glu	Trp	Leu	Glu	His	Thr	Asp
				85					90					95	
Asn	His	Leu	Leu	Thr	Ala	Asp	Asp	Pro	Arg	Phe	Pro	Pro	Leu	Leu	Arg
		100						105					110		
Ser	Ile	Pro	Asp	Phe	Pro	Gly	Ala	Leu	Phe	Val	Arg	Gly	Arg	Val	Asp
		115					120					125			
Val	Leu	Asn	Ser	Met	Gln	Leu	Ala	Val	Val	Gly	Ser	Arg	Ala	Pro	Ser
	130					135						140			
Trp	Tyr	Gly	Glu	Arg	Trp	Gly	Lys	Met	Leu	Ser	Glu	Gln	Leu	Ser	Gln
145					150						155				160
Cys	Gly	Phe	Thr	Ile	Thr	Ser	Gly	Leu	Ala	Cys	Gly	Ile	Asp	Gly	Val
				165					170					175	
Ala	His	His	Ala	Ala	Leu	Ser	Ala	Lys	Gly	Arg	Ser	Val	Ala	Val	Leu
			180					185					190		
Gly	Asn	Gly	Leu	Phe	Ser	Leu	Tyr	Pro	Arg	Arg	His	His	Ile	Leu	Ala
		195					200					205			
Glu	Gln	Leu	Ile	Ala	Ser	Glu	Gly	Ala	Ile	Val	Ser	Glu	Phe	Ser	Leu
	210					215					220				
Ser	Thr	Ser	Pro	Arg	Pro	Gly	Asn	Phe	Pro	Arg	Arg	Asn	Arg	Ile	Ile
225					230					235					240
Ser	Gly	Leu	Ser	Gln	Gly	Val	Leu	Val	Val	Glu	Ala	Ala	Ile	Arg	Ser
				245					250					255	
Gly	Ser	Leu	Val	Thr	Ala	Arg	Cys	Ala	Leu	Glu	Gln	Gly	Arg	Glu	Val
		260						265					270		
Phe	Ala	Leu	Pro	Gly	Pro	Leu	Gly	Asn	Pro	Gly	Cys	Glu	Gly	Pro	His
		275					280					285			
Trp	Leu	Ile	Lys	Gln	Gly	Ala	Thr	Leu	Val	Thr	Cys	Lys	Glu	Asp	Ile
	290					295					300				
Leu	Glu	Asn	Leu	Gln	Tyr	Gly	Leu	His	Trp	Leu	Gln	Asp	Asp	Leu	Gln
305					310					315					320
Lys	Arg	His	Ile	Ser	Ser	Asp	Gln	Glu	Ala	Val	Ala	Leu	Pro	Phe	Pro
				325					330					335	
Lys	Leu	Leu	Ala	Asn	Val	Gly	Asp	Glu	Val	Thr	Pro	Val	Asp	Val	Val
			340					345					350		
Ala	Glu	Arg	Ala	Gly	Gln	Pro	Val	Pro	Val	Thr	Val	Ala	Gln	Leu	Leu
		355					360					365			
Glu	Leu	Glu	Leu	Ala	Gly	Trp	Ile	Ala	Ala	Val	Pro	Gly	Gly	Tyr	Val
	370					375					380				
Arg	Leu	Arg	Arg	Ala	Cys	His	Val	Arg	Arg	Thr	Asp	Val	Phe	Val	
385					390					395					400

<210> 6778
 <211> 199
 <212> PRT
 <213> Enterobacter cloacae

<400> 6778

Arg Tyr Ala Ala Leu Ile Leu Cys Ala Ala Thr Arg Val Val Met Ala
 1 5 10 15
 Lys Ser Ala Leu Phe Thr Val His Lys Asn Glu Pro Cys Pro Gln Cys
 20 25 30
 Gly Ala Glu Leu Val Ile Arg Ser Gly Lys His Gly Pro Phe Leu Gly
 35 40 45
 Cys Ser His Tyr Pro Glu Cys Asp Tyr Val Arg Ser Leu Lys Ser Gln
 50 55 60
 Ala Asp Gly His Ile Val Lys Ile Leu Glu Gly Gln Leu Cys Pro Leu
 65 70 75 80
 Cys Gly Gly Glu Leu Ala Leu Arg Gln Gly Arg Phe Gly Met Phe Ile
 85 90 95
 Gly Cys Ser Arg Tyr Pro Glu Cys Asp His Thr Glu Gln Ile Asp Lys
 100 105 110
 Pro Asp Glu Thr Ala Ile Ala Cys Pro Gln Cys Gln Arg Gly Gln Leu
 115 120 125
 Val Gln Arg Arg Ser Arg Tyr Gly Lys Thr Phe His Ser Cys Asp Arg
 130 135 140
 Tyr Pro Glu Cys Gln Phe Val Ile Asn Phe Lys Pro Val Ala Gly Val
 145 150 155 160
 Cys His Asn Cys Asp Tyr Pro Leu Leu Ile Glu Lys Lys Thr Ala Gln
 165 170 175
 Gly Leu Lys Arg Phe Cys Ala Ser Lys Gln Cys Gly Lys Pro Val Ser
 180 185 190
 Ala Asp Gln Ile Ser Glu
 195

<210> 6779

<211> 441

<212> PRT

<213> Enterobacter cloacae

<400> 6779

Gly Pro Val Phe Pro Gly Ile Phe Ile Phe Thr Val Met Lys Arg Gln
 1 5 10 15
 Asn Leu Arg Thr Met Ala Ala Gln Ala Val Glu Gln Val Ile Glu Gln
 20 25 30
 Gly Gln Ser Leu Ser Asn Val Leu Pro Pro Leu Gln Gln Lys Val Ser
 35 40 45
 Asp Lys Asp Lys Ala Leu Leu Gln Glu Leu Cys Phe Gly Val Leu Arg
 50 55 60
 Thr Leu Ser Gln Leu Glu Trp Leu Ile Asn Lys Leu Met Ser Arg Pro
 65 70 75 80
 Met Ser Gly Lys Gln Arg Thr Val His Tyr Leu Ile Met Val Gly Phe
 85 90 95
 Tyr Gln Leu Leu His Thr Arg Ile Pro Pro His Ala Ala Leu Ala Glu
 100 105 110
 Thr Val Glu Gly Ala Val Ala Ile Lys Arg Pro Gln Leu Lys Gly Leu
 115 120 125
 Ile Asn Gly Val Leu Arg Gln Phe Gln Arg Gln Gln Asp Glu Leu Leu
 130 135 140
 Ala Glu Phe Ala Gln Ser Glu Ala Arg Phe Leu His Pro Glu Trp Leu
 145 150 155 160
 Leu Asn Arg Leu Lys Lys Ala Tyr Pro Gln Gln Trp Gln Asp Ile Val
 165 170 175
 Asp Ala Asn Asn Gln Arg Pro Pro Met Trp Leu Arg Val Asn Arg Asn
 180 185 190
 His His Thr Arg Asp Ala Trp Leu Ala Leu Leu Glu Glu Thr Gly Met
 195 200 205

Ser Gly Phe Thr His Ala Ala Tyr Pro Asp Ala Val Arg Leu Ala Ser
 210 215 220
 Pro Ala Pro Val His Ala Leu Pro Gly Phe Glu Gly Trp Val Thr
 225 230 235 240
 Val Gln Asp Ala Ser Ala Gln Gly Cys Met Ala Trp Leu Glu Pro Lys
 245 250 255
 Asp Gly Glu Gln Ile Leu Asp Leu Cys Ala Ala Pro Gly Gly Lys Thr
 260 265 270
 Thr His Ile Leu Glu Val Ala Pro Gln Ala Cys Val Met Ala Val Asp
 275 280 285
 Val Asp Glu Gln Arg Leu Ser Arg Val Tyr Asp Asn Leu Lys Arg Leu
 290 295 300
 Gly Met Lys Ala Gln Val Lys Gln Gly Asp Gly Arg Lys Pro Ala Asp
 305 310 315 320
 Trp Cys Gly Asp Thr Arg Phe Asp Arg Ile Leu Leu Asp Ala Pro Cys
 325 330 335
 Ser Ala Thr Gly Val Ile Arg Arg His Pro Asp Ile Lys Trp Leu Arg
 340 345 350
 Arg Asp Arg Asp Ile Lys Glu Leu Ala Gln Leu Gln Ser Glu Ile Leu
 355 360 365
 Asp Ala Ile Trp Pro His Leu Lys Pro Gly Gly Thr Leu Val Tyr Ala
 370 375 380
 Thr Cys Ser Val Leu Pro Glu Glu Asn Ser Gln Gln Ile Ala Ala Phe
 385 390 395 400
 Leu Lys Arg Thr Pro Asp Ala Thr Leu His Asp Thr Gly Thr Pro Glu
 405 410 415
 His Pro Gly Leu Gln Asn Leu Pro Gly Ala Glu Glu Gly Asp Gly Phe
 420 425 430
 Phe Tyr Ala Lys Leu Ile Lys Glu
 435 440

<210> 6780

<211> 470

<212> PRT

<213> Enterobacter cloacae

<400> 6780

Ser Lys Ser Asp Val Glu Asn Arg Ser Arg Lys Met Lys Ile Ile Ile
 1 5 10 15
 Leu Gly Ala Gly Gln Val Gly Gly Thr Leu Ala Glu Asn Leu Val Gly
 20 25 30
 Glu Asn Asn Asp Ile Thr Ile Val Asp Thr Asn Gly Asp Arg Leu Arg
 35 40 45
 Val Leu Gln Asp Lys Phe Asp Leu Arg Val Val Gln Gly His Gly Ser
 50 55 60
 His Pro Arg Val Leu Arg Glu Ala Gly Ala Asp Asp Ala Asp Met Leu
 65 70 75 80
 Val Ala Val Thr Ser Ser Asp Glu Thr Asn Met Val Ala Cys Gln Val
 85 90 95
 Ala Tyr Ser Leu Phe Asn Thr Pro Asn Arg Ile Ala Arg Ile Arg Ser
 100 105 110
 Pro Asp Tyr Val Arg Asp Ala Glu Lys Leu Phe Asn Ser Glu Ala Val
 115 120 125
 Pro Ile Asp His Leu Ile Ala Pro Glu Gln Leu Val Ile Asp Ser Ile
 130 135 140
 Tyr Arg Leu Ile Glu Tyr Pro Gly Ala Leu Gln Val Val Asn Phe Ala
 145 150 155 160
 Glu Gly Lys Val Ser Leu Ala Val Val Lys Ala Tyr Tyr Gly Gly Pro
 165 170 175
 Leu Ile Gly Asn Ala Leu Ser Thr Met Arg Glu His Met Pro His Ile
 180 185 190

Asp Thr Arg Val Ala Ala Ile Phe Arg His Asp Arg Pro Ile Arg Pro
 195 200 205
 Gln Gly Ser Thr Ile Val Glu Ala Gly Asp Glu Val Phe Phe Ile Ala
 210 215 220
 Ala Ser Gln His Ile Arg Ala Val Met Ser Glu Leu Gln Arg Leu Glu
 225 230 235 240
 Lys Pro Tyr Lys Arg Ile Met Leu Val Gly Gly Gly Asn Ile Gly Ala
 245 250 255
 Gly Leu Ala Arg Arg Leu Glu Lys Asp Tyr Ser Val Lys Leu Ile Glu
 260 265 270
 Arg Asp Gln Gln Arg Ala Ser Glu Leu Ala Glu Lys Leu Gln Asn Thr
 275 280 285
 Ile Val Phe Tyr Gly Asp Ala Ser Asp Gln Glu Leu Leu Ala Glu Glu
 290 295 300
 His Ile Asp Gln Val Asp Leu Phe Ile Ala Val Thr Asn Asp Asp Glu
 305 310 315 320
 Ala Asn Ile Met Ser Ala Met Leu Ala Lys Arg Met Gly Ala Lys Lys
 325 330 335
 Val Met Val Leu Ile Gln Arg Lys Ala Tyr Val Asp Leu Val Gln Gly
 340 345 350
 Ser Val Ile Asp Ile Ala Ile Ser Pro Gln Gln Ala Thr Ile Ser Ala
 355 360 365
 Leu Leu Ser His Val Arg Lys Ala Asp Ile Val Gly Val Ser Ser Leu
 370 375 380
 Arg Arg Gly Val Ala Glu Ala Ile Glu Ala Val Ala His Gly Asp Glu
 385 390 395 400
 Thr Thr Ser Arg Val Val Gly Arg Ala Ile Asp Glu Ile Lys Leu Pro
 405 410 415
 Pro Gly Thr Ile Ile Gly Ala Val Val Arg Gly Asn Asp Val Met Ile
 420 425 430
 Ala Asn Asp Asn Leu Arg Ile Glu Gln Gly Asp His Val Ile Met Phe
 435 440 445
 Leu Thr Asp Lys Lys Phe Ile Thr Asp Val Glu Arg Leu Phe Gln Pro
 450 455 460
 Ser Pro Phe Phe Leu
 465 470

<210> 6781

<211> 176

<212> PRT

<213> Enterobacter cloacae

<400> 6781

Thr Arg Leu Trp Lys Phe Met Ala Val Leu Gln Val Leu His Ile Pro
 1 5 10 15
 Asp Glu Arg Leu Arg Ile Val Ala Glu Pro Val Lys Glu Val Asn Ala
 20 25 30
 Glu Ile Gln Arg Ile Val Asp Asp Phe Asp Thr Met Tyr Ala Glu
 35 40 45
 Glu Gly Ile Gly Leu Ala Ala Thr Gln Val Asp Ile His Lys Arg Ile
 50 55 60
 Ile Val Ile Asp Val Ser Glu Asn Arg Asp Glu Arg Leu Val Leu Ile
 65 70 75 80
 Asn Pro Glu Leu Leu Glu Lys Ser Gly Glu Thr Gly Ile Glu Glu Gly
 85 90 95
 Cys Leu Ser Ile Pro Glu Gln Arg Ala Leu Val Pro Arg Ala Glu Lys
 100 105 110
 Val Lys Ile Arg Ala Leu Asp Arg Asp Gly Asn Pro Phe Glu Leu Glu
 115 120 125
 Ala Asp Asp Leu Leu Ala Ile Cys Ile Gln His Glu Met Asp His Leu
 130 135 140

Val	Gly	Lys	Leu	Phe	Ile	Asp	Tyr	Leu	Ser	Pro	Leu	Lys	Gln	Gln	Arg
145					150				155						160
Ile	Arg	Gln	Lys	Val	Glu	Lys	Leu	Asp	Arg	Leu	Arg	Ser	Arg	Ala	
				165					170					175	

<210> 6782

<211> 324

<212> PRT

<213> Enterobacter cloacae

<400> 6782

Arg	Pro	Pro	Asp	Thr	Arg	Asn	Asn	Val	Ser	Thr	Ser	Leu	Arg	Ile	Ile
1				5					10					15	
Phe	Ala	Gly	Thr	Pro	Asp	Phe	Ala	Ala	Arg	His	Leu	Asp	Ala	Leu	Leu
			20					25					30		
Ser	Ser	Gly	His	Gln	Ile	Val	Gly	Val	Phe	Thr	Gln	Pro	Asp	Arg	Pro
		35					40					45			
Ala	Gly	Arg	Gly	Lys	Lys	Leu	Met	Pro	Gly	Pro	Val	Lys	Val	Leu	Ala
	50					55					60				
Glu	Thr	His	Gly	Leu	Pro	Val	Phe	Gln	Pro	Ala	Ser	Leu	Arg	Pro	Glu
65					70					75					80
Glu	Asn	Gln	Gln	Leu	Val	Ala	Asp	Leu	Asn	Ala	Asp	Val	Met	Val	Val
				85					90					95	
Val	Ala	Tyr	Gly	Leu	Ile	Leu	Pro	Lys	Ala	Val	Leu	Asp	Met	Pro	Arg
			100					105					110		
Leu	Gly	Cys	Val	Asn	Val	His	Gly	Ser	Leu	Leu	Pro	Arg	Trp	Arg	Gly
		115					120					125			
Ala	Ala	Pro	Ile	Gln	Arg	Ala	Leu	Trp	Ala	Gly	Asp	Ala	Glu	Thr	Gly
	130					135					140				
Val	Thr	Ile	Met	Lys	Met	Asp	Val	Gly	Leu	Asp	Thr	Gly	Asp	Met	Leu
145					150					155					160
Tyr	Lys	Leu	Ala	Cys	Pro	Ile	Thr	Ala	Glu	Asp	Thr	Ser	Ala	Thr	Leu
				165					170					175	
Tyr	Asp	Lys	Leu	Ala	Asp	Leu	Gly	Pro	Gln	Gly	Leu	Ile	Glu	Thr	Leu
			180					185					190		
Gln	Gln	Leu	Ala	Asp	Asn	Thr	Ala	Thr	Pro	Glu	Val	Gln	Asp	Glu	Ala
		195					200					205			
Gln	Val	Thr	Tyr	Ala	Glu	Lys	Leu	Ser	Lys	Glu	Glu	Ala	Arg	Ile	Asp
	210					215					220				
Trp	Ser	Leu	Ser	Ala	Ala	Gln	Leu	Glu	Arg	Cys	Ile	Arg	Ala	Phe	Asn
225					230					235					240
Pro	Trp	Pro	Met	Ser	Trp	Leu	Met	Ile	Asp	Glu	Gln	Pro	Val	Lys	Val
				245					250					255	
Trp	Lys	Ala	Ser	Val	Ile	Asn	Gly	Asn	Thr	Ser	Ala	Glu	Pro	Gly	Thr
			260					265					270		
Ile	Ile	Asp	Ala	Ser	Lys	Asn	Gly	Ile	Gln	Val	Ala	Thr	Gly	Glu	Gly
		275					280					285			
Ile	Leu	Asn	Leu	Glu	Ser	Leu	Gln	Pro	Ala	Gly	Lys	Lys	Ala	Met	Ser
	290					295					300				
Ala	Gln	Asp	Leu	Leu	Asn	Ser	Arg	Arg	Glu	Trp	Phe	Ile	Pro	Gly	Asn
305					310					315					320
Arg	Leu	Ala													

<210> 6783

<211> 153

<212> PRT

<213> Enterobacter cloacae

<400> 6783

Ser Phe Val Lys Leu Ile Gly Val Ser Trp His Lys Glu Asn Ile Met

1				5				10				15		
Ser	Phe	Ile	Lys	Glu	Phe	Arg	Glu	Phe	Ala	Met	Arg	Gly	Asn	Val
			20					25					30	
Asp	Leu	Ala	Val	Gly	Val	Ile	Ile	Gly	Ala	Ala	Phe	Gly	Lys	Ile
		35					40					45		
Ser	Ser	Leu	Val	Ala	Asp	Ile	Ile	Met	Pro	Pro	Leu	Gly	Leu	Ile
	50					55					60			
Gly	Gly	Ile	Asp	Phe	Lys	Gln	Phe	Ala	Phe	Thr	Leu	Arg	Glu	Ala
65					70					75				80
Gly	Asp	Ile	Pro	Ala	Val	Val	Met	His	Tyr	Gly	Val	Phe	Ile	Gln
				85					90					95
Val	Phe	Asp	Phe	Val	Ile	Val	Ala	Phe	Ala	Ile	Phe	Met	Ala	Ile
			100					105					110	Lys
Leu	Ile	Asn	Arg	Leu	Asn	Arg	Lys	Lys	Glu	Glu	Pro	Ala	Ala	Ala
		115					120					125		Pro
Pro	Ala	Pro	Thr	Lys	Glu	Glu	Val	Leu	Leu	Thr	Glu	Ile	Arg	Asp
	130					135					140			Leu
Leu	Lys	Glu	Gln	Asn	Asn	Arg	Val							
145						150								

<210> 6784

<211> 136

<212> PRT

<213> Enterobacter cloacae

<400> 6784

Gln	Glu	Val	Ile	Met	Ala	Gln	Ile	Pro	Ala	Gly	Ala	Asp	Cys	Pro	Gly
1				5					10					15	
Gln	Leu	Ser	Arg	Lys	Gln	Thr	Gly	Asp	Ala	Trp	Glu	Leu	Lys	Ala	Arg
			20					25					30		
Arg	Trp	Leu	Glu	Gly	Lys	Gly	Leu	Arg	Phe	Val	Ala	Ala	Asn	Val	Arg
		35					40					45			
Gly	Arg	Gly	Gly	Glu	Ile	Asp	Leu	Ile	Met	Lys	Asp	Gly	Gln	Thr	Ile
	50					55					60				
Val	Phe	Val	Glu	Val	Arg	Tyr	Arg	Gln	Ser	Ser	Arg	Phe	Gly	Gly	Ala
65					70					75					80
Ala	Ala	Ser	Val	Thr	Leu	Ala	Lys	Gln	Gln	Lys	Leu	Leu	Gln	Thr	Ala
				85					90					95	
His	Leu	Trp	Leu	Ala	Arg	His	Asn	Gly	Ser	Phe	Asp	Thr	Val	Asp	Cys
			100					105					110		
Arg	Phe	Asp	Val	Val	Ala	Phe	Thr	Gly	Asn	Ala	Ile	Asp	Trp	Leu	Lys
		115					120					125			
Asn	Ala	Phe	Gly	Glu	Asp	Ala									
	130					135									

<210> 6785

<211> 200

<212> PRT

<213> Enterobacter cloacae

<400> 6785

Arg	Asp	Thr	Val	Leu	Glu	Arg	Ile	Lys	Val	Cys	Phe	Thr	Glu	Ser	Ile
1				5					10					15	
Gln	Thr	Gln	Ile	Ala	Ala	Ala	Glu	Ala	Leu	Pro	Asp	Ala	Ile	Ser	Arg
			20					25					30		
Ala	Ala	Met	Thr	Leu	Val	Gln	Ser	Leu	Leu	Asn	Gly	Asn	Lys	Ile	Leu
		35					40					45			
Cys	Cys	Gly	Asn	Gly	Thr	Ser	Ala	Ala	Asn	Ala	Gln	His	Phe	Ala	Ala
	50					55					60				
Ser	Met	Ile	Asn	Arg	Phe	Glu	Thr	Glu	Arg	Pro	Ser	Leu	Pro	Ala	Ile
65					70				75						80

Ala Leu Asn Thr Asp Asn Val Val Leu Thr Ala Ile Ala Asn Asp Arg
 85 90 95
 Leu His Asp Glu Ile Tyr Ala Lys Gln Val Arg Ala Leu Gly His Ala
 100 105 110
 Gly Asp Val Leu Leu Ala Ile Ser Thr Arg Gly Asn Ser Arg Asp Ile
 115 120 125
 Val Lys Ala Val Glu Ala Ala Val Thr Arg Asp Met Thr Ile Val Ala
 130 135 140
 Leu Thr Gly Tyr Asp Gly Gly Glu Leu Ala Gly Leu Leu Gly Pro Gln
 145 150 155 160
 Asp Val Glu Ile Arg Ile Pro Ser His Arg Ser Ala Arg Ile Gln Glu
 165 170 175
 Met His Met Leu Thr Val Asn Cys Leu Cys Asp Leu Ile Asp Asn Thr
 180 185 190
 Leu Phe Pro His Gln Asp Asp
 195 200

<210> 6786

<211> 195

<212> PRT

<213> Enterobacter cloacae

<400> 6786

Gly Val Leu Met Lys Val Leu Ser Ala Leu Ala Val Val Met Ser Ala
 1 5 10 15
 Leu Leu Leu Gln Gly Cys Ile Ala Ala Val Val Gly Thr Ala Ala
 20 25 30
 Val Gly Thr Lys Ala Ala Thr Asp Pro Arg Thr Val Gly Thr Gln Val
 35 40 45
 Asp Asp Gly Thr Leu Glu Leu Arg Val Asn Ser Ala Leu Ser Lys Asp
 50 55 60
 Glu Gln Ile Lys Lys Glu Ala Arg Ile Asn Val Thr Ala Tyr Gln Gly
 65 70 75 80
 Lys Val Leu Leu Ala Gly Gln Ala Pro Asn Pro Glu Leu Ala Ser Arg
 85 90 95
 Ala Lys Gln Ile Ala Met Gly Val Glu Gly Thr Ala Glu Val Tyr Asn
 100 105 110
 Glu Ile Arg Gln Gly Gln Pro Ile Gly Leu Gly Thr Ala Ser Ser Asp
 115 120 125
 Thr Trp Ile Thr Thr Lys Val Arg Ser Gln Leu Leu Gly Thr Asp Gln
 130 135 140
 Val Lys Ser Ser Asn Val Lys Val Thr Thr Glu Asn Gly Glu Val Phe
 145 150 155 160
 Leu Leu Gly Leu Val Thr Glu Arg Glu Gly Lys Ala Ala Ala Asp Ile
 165 170 175
 Ala Ser Arg Val Ser Gly Val Lys His Val Thr Thr Ala Phe Thr Tyr
 180 185 190
 Ile Lys
 195

<210> 6787

<211> 391

<212> PRT

<213> Enterobacter cloacae

<400> 6787

Gly Gly Gly Ile Pro Asn Arg Gly Arg Arg Ala Met Phe Arg Arg Gln
 1 5 10 15
 Cys Gly Arg Gly Ser Ser Pro Asn Phe Val His Glu Arg Phe Gln Asp
 20 25 30
 Thr Val Leu His Asp Ala Phe Ala Phe Phe Ser Gly Ile Arg Ile Val

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<210> 6788
<211> 395
<212> PRT
<213> Enterobacter cloacae
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<400> 6788															
Gln	Gly	Asp	Val	Val	Phe	Asp	Phe	Asp	Arg	Ile	Ile	Glu	Arg	Lys	Ser
1				5					10					15	
Asp	Lys	Cys	Arg	Lys	Trp	Asp	His	Ala	Phe	Val	Cys	Ser	Arg	Phe	Gly
			20					25					30		
Asp	Val	Pro	Glu	Gly	Phe	Ile	Pro	Leu	Trp	Ile	Ala	Asp	Met	Asp	Phe
		35					40					45			
Thr	Ser	Pro	Pro	Ala	Val	Ile	Glu	Gly	Phe	Gln	Arg	Ile	Val	Glu	His
	50					55					60				
Gly	Thr	Phe	Gly	Tyr	Thr	Trp	Cys	Phe	Asp	Glu	Phe	Tyr	Asp	Ala	Val

65					70					75				80	
Ile	Ala	Phe	Gln	Arg	Thr	Arg	His	Gln	Val	Glu	Val	His	Lys	Ser	Trp
				85					90					95	
Ile	Thr	Leu	Thr	Tyr	Gly	Thr	Val	Ser	Thr	Leu	His	Tyr	Thr	Val	Gln
			100					105					110		
Ala	Phe	Cys	Lys	Pro	Gly	Asp	Cys	Val	Met	Met	Asn	Thr	Pro	Val	Tyr
		115					120					125			
Asp	Pro	Phe	Ala	Met	Ala	Thr	Gln	Arg	Gln	Gly	Val	Arg	Val	Leu	Ala
		130				135					140				
Asn	Pro	Leu	Ser	Val	Lys	Glu	Asn	Arg	Tyr	His	Leu	Asp	Phe	Asn	Leu
145					150					155					160
Ile	Glu	Val	Gln	Leu	Lys	Thr	His	Arg	Pro	Lys	Leu	Trp	Phe	Phe	Cys
			165						170					175	
Ser	Pro	His	Asn	Pro	Ser	Gly	Arg	Ile	Trp	Arg	Ala	Asp	Glu	Ile	Arg
			180					185					190		
Gln	Val	Ser	Asp	Leu	Cys	Lys	Arg	Tyr	Gly	Thr	Ile	Leu	Val	Val	Asp
		195					200					205			
Glu	Val	His	Ala	Glu	His	Ile	Leu	Asp	Gly	Thr	Phe	Val	Ser	Cys	Leu
	210					215					220				
Thr	Ser	Gly	Cys	Ala	Ala	Gln	Asp	Asn	Leu	Ile	Val	Leu	Thr	Ser	Pro
225				230						235					240
Asn	Lys	Ala	Phe	Asn	Leu	Gly	Gly	Leu	Lys	Thr	Ser	Tyr	Ser	Ile	Ile
			245						250					255	
Pro	Asp	Asp	Ser	Leu	Arg	Gln	Arg	Phe	Arg	Gln	Gln	Leu	Glu	Lys	Asn
		260						265				270			
Ser	Ile	Thr	Ser	Pro	Asn	Ile	Phe	Gly	Val	Trp	Gly	Ile	Ile	Leu	Ala
	275						280					285			
Tyr	Gln	Gln	Gly	Leu	Pro	Trp	Leu	Asp	Ala	Leu	Asn	Gly	Tyr	Leu	Arg
	290					295					300				
Gly	Asn	Ala	Arg	Tyr	Leu	Ala	Asp	Ala	Ile	Gln	Thr	His	Phe	Pro	Ala
305					310					315					320
Trp	Lys	Met	Met	Asn	Pro	Glu	Ser	Ser	Tyr	Leu	Ala	Trp	Ile	Asp	Val
			325						330					335	
Ser	Ala	Asp	Asp	Arg	Ser	Ala	Thr	Ala	Leu	Thr	Gln	His	Phe	Ala	Lys
		340						345					350		
Gln	Ala	Gly	Val	Val	Ile	Glu	Asp	Gly	Ser	His	Tyr	Val	Gln	Asn	Gly
	355					360						365			
Glu	Asn	Tyr	Leu	Arg	Ile	Asn	Phe	Gly	Thr	Gln	Arg	Tyr	Trp	Leu	Glu
	370					375					380				
Gln	Ser	Ile	Asn	Arg	Met	Leu	Lys	His	Tyr						
385					390					395					

<210> 6789

<211> 723

<212> PRT

<213> Enterobacter cloacae

<400> 6789

Ala	Leu	Arg	Lys	Lys	Ile	Thr	Gly	Tyr	Ser	Met	Val	Pro	Leu	Thr	Phe
1				5					10					15	
Leu	Arg	Lys	Lys	Ala	Ala	His	Ser	Val	Pro	Leu	Leu	Leu	Ala	Ala	Leu
			20					25					30		
Ile	Phe	Thr	Gly	Cys	Gly	Thr	Gln	Ala	Pro	Asp	Gln	Ser	Thr	Ala	His
	35						40					45			
Met	Gln	Gly	Ser	Ala	Gln	Ala	Asp	Ser	Gly	Phe	Tyr	Leu	Gln	Gln	Met
	50					55					60				
Ser	Gln	Ser	Thr	Asn	Asp	Thr	Arg	Ile	Asn	Trp	Gln	Leu	Leu	Ala	Ile
65				70						75					80
Arg	Ala	Leu	Leu	Lys	Glu	Gly	Lys	Thr	Gln	Gln	Ala	Ala	Glu	Leu	Phe
				85					90					95	
Ser	Gln	Leu	Pro	Gln	Asp	Leu	Asn	Asp	Thr	Gln	Arg	His	Glu	Gln	Thr

			100					105					110		
Leu	Leu	Ser	Ala	Glu	Leu	Lys	Val	Ala	Gln	Lys	Asp	Tyr	Asp	Gly	Ala
		115					120					125			
Lys	Lys	Ile	Leu	Gly	Thr	Ile	Asp	Leu	Ser	Thr	Leu	Asp	Lys	Asn	Gln
		130				135					140				
Gln	Thr	Arg	Phe	Trp	Gln	Ala	Gly	Ile	Thr	Ala	Glu	Gln	Gly	Arg	Thr
145				150					155						160
Ser	Leu	Thr	Leu	Leu	Arg	Ala	Leu	Ile	Ala	Gln	Glu	Pro	Leu	Leu	Ala
				165					170						175
Gly	Ala	Asp	Lys	Gln	Lys	Asn	Ile	Asp	Ala	Thr	Trp	Gln	Ala	Leu	Ala
			180					185					190		
Ser	Met	Thr	Gln	Asp	Gln	Ala	Lys	Ala	Leu	Val	Ile	Asn	Ala	Asp	Glu
		195					200					205			
Asn	Val	Leu	Gln	Gly	Trp	Leu	Asp	Leu	Gln	Gln	Met	Trp	Phe	Asn	Asn
		210				215					220				
Arg	Ser	Asp	Pro	Asn	Met	Leu	Lys	Ala	Gly	Ile	Thr	Asp	Trp	Gln	Lys
225				230					235						240
Arg	Tyr	Pro	Gln	Asn	Pro	Gly	Ala	Lys	Met	Leu	Pro	Thr	Gln	Leu	Val
				245					250					255	
Asn	Val	Gln	Asn	Phe	Lys	Pro	Ala	Ser	Thr	Ser	Lys	Ile	Ala	Leu	Leu
			260					265					270		
Leu	Pro	Leu	Asn	Gly	Gln	Ala	Ala	Val	Phe	Gly	Arg	Ala	Ile	Gln	Gln
		275					280					285			
Gly	Phe	Glu	Ala	Ala	Lys	Asn	Gly	Thr	Thr	Ala	Val	Ser	Gly	Ser	Ala
		290				295					300				
Val	Pro	Thr	Gln	Ala	Ala	Gln	Ala	Asn	Val	Asn	Asp	Val	Val	Ser	
305				310					315					320	
Pro	Ser	Ala	Ala	Glu	Thr	Ser	Asp	Leu	Thr	Thr	Ala	Gln	Thr	Pro	Ala
				325					330					335	
Gln	Gly	Thr	Met	Gln	Asn	Pro	Val	Thr	Ala	Pro	Thr	Thr	Gln	Pro	Ala
			340					345					350		
Pro	Pro	Ala	Pro	Ala	Ala	Thr	Gln	Ala	Pro	Ala	Glu	Thr	Pro	Ala	Pro
		355					360					365			
Ala	Thr	Ala	Glu	Gln	Pro	Gln	Pro	Gln	Thr	Glu	Gln	Pro	Glu	Gln	Gln
		370				375					380				
Pro	Ala	Thr	Gln	Pro	Gln	Ala	Val	Ala	Thr	Thr	Ser	Ala	Asn	Pro	Gly
385				390						395				400	
Ala	Glu	Leu	Lys	Ile	Tyr	Asp	Thr	Ser	Ala	Gln	Pro	Leu	Asp	Gln	Val
				405					410					415	
Leu	Ala	Gln	Val	Gln	Gln	Asp	Gly	Ala	Ser	Ile	Val	Val	Gly	Pro	Leu
			420				425						430		
Leu	Lys	Asn	Asn	Val	Glu	Ala	Leu	Met	Lys	Ser	Asn	Thr	Thr	Leu	Asn
		435					440					445			
Val	Leu	Ala	Leu	Asn	Gln	Pro	Glu	Gln	Val	Gln	Asn	Arg	Ala	As	

Phe	Ile	Lys	Pro	Met	Ile	Ala	Met	Arg	Asn	Gly	Ser	Gln	Ser	Gly	Ala
		595					600					605			
Thr	Leu	Tyr	Ala	Ser	Ser	Arg	Ser	Ala	Gln	Gly	Thr	Ala	Gly	Pro	Asp
	610						615					620			
Phe	Arg	Leu	Glu	Met	Glu	Gly	Leu	Gln	Tyr	Ser	Glu	Ile	Pro	Met	Leu
625					630					635					640
Ala	Gly	Ser	Asn	Pro	Gln	Leu	Met	Gln	Gln	Ala	Leu	Gly	Ala	Val	Arg
			645						650					655	
Asn	Asp	Tyr	Ser	Leu	Ala	Arg	Leu	Tyr	Ala	Met	Gly	Val	Asp	Ala	Trp
			660					665					670		
Ala	Leu	Ala	Asn	His	Phe	Thr	Gln	Met	Arg	Gln	Val	Pro	Gly	Phe	Glu
		675					680					685			
Leu	Asn	Gly	Asn	Thr	Gly	Asp	Leu	Thr	Ala	Asp	Gln	Asp	Cys	Val	Ile
	690					695					700				
Asn	Arg	Lys	Leu	Ser	Trp	Leu	Lys	Tyr	Gln	Gln	Gly	Gln	Ile	Val	Pro
705					710					715					720
Ala	Ser														

<210> 6790

<211> 295

<212> PRT

<213> Enterobacter cloacae

<400> 6790

Ile	Gly	Asn	Thr	Asp	Glu	Thr	Met	Lys	Gln	His	Glu	Thr	Ala	Asp	Asn
1				5					10					15	
Ser	Gln	Gly	Gln	Leu	Tyr	Ile	Val	Pro	Thr	Pro	Ile	Gly	Asn	Leu	Ser
		20						25					30		
Asp	Ile	Thr	Gln	Arg	Ala	Leu	Thr	Val	Leu	Gln	Ala	Val	Asp	Leu	Ile
	35						40					45			
Ala	Ala	Glu	Asp	Thr	Arg	His	Thr	Gly	Leu	Leu	Leu	Gln	His	Phe	Ala
	50					55					60				
Ile	Asn	Ala	Arg	Leu	Phe	Ala	Leu	His	Asp	His	Asn	Glu	Gln	Gln	Lys
65					70				75						80
Ala	Glu	Thr	Leu	Val	Ala	Lys	Leu	Lys	Glu	Gly	Gln	Asn	Ile	Ala	Leu
			85						90					95	
Val	Ser	Asp	Ala	Gly	Thr	Pro	Leu	Ile	Asn	Asp	Pro	Gly	Tyr	His	Leu
		100						105					110		
Val	Arg	Thr	Cys	Arg	Glu	Ala	Gly	Ile	Arg	Val	Val	Pro	Leu	Pro	Gly
		115					120					125			
Pro	Cys	Ala	Ala	Ile	Ala	Ala	Leu	Ser	Ala	Ala	Gly	Leu	Pro	Ser	Asp
		130				135					140				
Arg	Phe	Cys	Tyr	Glu	Gly	Phe	Leu	Pro	Ala	Lys	Ser	Lys	Gly	Arg	Arg
145					150					155					160
Asp	Val	Leu	Glu	Asp	Leu	Glu	Ala	Glu	Pro	Arg	Thr	Leu	Ile	Phe	Tyr
			165						170					175	
Glu	Ser	Thr	His	Arg	Leu	Leu	Glu	Ser	Leu	Glu	Asp	Met	Val	Thr	Val
			180					185					190		
Trp	Gly	Glu	Gly	Arg	Tyr	Val	Val	Leu	Ala	Arg	Glu	Leu	Thr	Lys	Thr
		195					200					205			
Trp	Glu	Thr	Ile	His	Gly	Ala	Pro	Val	Gly	Glu	Leu	Leu	Ala	Trp	Val
	210					215					220				
Lys	Glu	Asp	Glu	Asn	Arg	Arg	Lys	Gly	Glu	Met	Val	Leu	Ile	Val	Glu
225					230					235					240
Gly	His	Lys	Ala	Gln	Glu	Asp	Ala	Leu	Pro	Ala	Asp	Ala	Leu	Arg	Thr
			245							250				255	
Leu	Ala	Leu	Leu	Gln	Ala	Glu	Leu	Pro	Leu	Lys	Lys	Ala	Ala	Ala	Leu
		260						265					270		
Ala	Ala	Glu	Ile	His	Gly	Val	Lys	Lys	Asn	Ala	Leu	Tyr	Lys	Tyr	Ala
		275					280					285			

Leu Glu Gln Gln Gly Glu
290 295

<210> 6791
<211> 113
<212> PRT
<213> Enterobacter cloacae

<400> 6791
Lys Tyr Ile Leu Ala Val Leu Val Leu Gly Ala Ala Arg Val Trp Leu
1 5 10 15
Phe Pro His Ala Asp Gly Ala Ile Asp Asn Thr Leu Met Trp Val Ile
20 25 30
Ala Met Ala Val Ala Gly Cys Leu Phe Val Ile Pro Thr Ala Ala Glu
35 40 45
Ile Pro Ile Ile Gln Thr Met Met Met Ala Gly Met Gly Thr Ala Pro
50 55 60
Ala Leu Ala Leu Leu Ile Thr Leu Pro Ala Val Ser Leu Pro Ser Leu
65 70 75 80
Ile Met Leu Arg Lys Ser Phe Pro Ala Lys Ala Leu Trp Leu Thr Ala
85 90 95
Gly Leu Val Ala Leu Ser Gly Val Ile Val Gly Ser Met Ala Leu Val
100 105 110

<210> 6792
<211> 97
<212> PRT
<213> Enterobacter cloacae

<400> 6792
Gly Glu Ala Val Leu His Pro Ala Val Lys Thr Trp Val Val Glu Gly
1 5 10 15
Ser Lys Lys Arg Leu Gln Ala Phe Glu Gly Val Val Ile Ala Ile Arg
20 25 30
Asn Arg Gly Leu His Ser Ala Phe Thr Val Arg Lys Ile Ser Asn Gly
35 40 45
Glu Gly Val Glu Arg Val Phe Gln Thr His Ser Pro Val Val Asp Ser
50 55 60
Ile Ala Val Lys Arg Arg Gly Ala Val Arg Lys Ala Lys Leu Tyr Tyr
65 70 75 80
Leu Arg Glu Arg Thr Gly Lys Ser Ala Arg Ile Lys Glu Arg Leu Asn
85 90 95

<210> 6793
<211> 332
<212> PRT
<213> Enterobacter cloacae

<400> 6793
Thr Lys Lys Gln Phe Met Ala Gln Arg Val Glu Leu Thr Ala Thr Val
1 5 10 15
Ser Glu Asn Gln Leu Gly Gln Arg Leu Asp Gln Ala Leu Ala Glu Leu
20 25 30
Phe Pro Asp Tyr Ser Arg Ser Arg Ile Lys Glu Trp Ile Leu Asp Gln
35 40 45
Arg Val Leu Val Asn Gly Lys Ile Trp Asp Lys Pro Lys Glu Lys Val
50 55 60

Phe	Gly	Gly	Glu	Ala	Val	Ala	Ile	Asn	Ala	Glu	Ile	Glu	Glu	Glu	Ile
65					70					75					80
Arg	Phe	Glu	Pro	Gln	Asp	Ile	Pro	Leu	Asp	Ile	Val	Tyr	Glu	Asp	Asp
				85					90					95	
Asp	Ile	Leu	Val	Ile	Asn	Lys	Pro	Arg	Asp	Phe	Val	Val	His	Pro	Gly
			100					105					110		
Ala	Gly	Asn	Pro	Asp	Gly	Thr	Val	Leu	Asn	Ala	Leu	Leu	His	Tyr	Tyr
		115					120					125			
Pro	Pro	Ile	Ala	Asp	Val	Pro	Arg	Ala	Gly	Ile	Val	His	Arg	Leu	Asp
		130				135					140				
Lys	Asp	Thr	Thr	Gly	Leu	Met	Val	Val	Ala	Lys	Thr	Ile	Pro	Ala	Gln
145					150					155					160
Thr	Arg	Leu	Val	Glu	Ser	Leu	Gln	Leu	Arg	Glu	Ile	Thr	Arg	Glu	Tyr
				165					170					175	
Glu	Ala	Val	Ala	Ile	Gly	His	Met	Thr	Ser	Gly	Gly	Thr	Val	Glu	Glu
			180					185					190		
Pro	Ile	Ser	Arg	His	Pro	Thr	Lys	Arg	Thr	His	Met	Ser	Val	His	Pro
		195					200					205			
Met	Gly	Lys	Pro	Ala	Val	Thr	His	Tyr	Arg	Ile	Met	Glu	His	Phe	Arg
		210				215					220				
Ile	His	Thr	Arg	Leu	Arg	Leu	Arg	Leu	Glu	Thr	Gly	Arg	Thr	His	Gln
225					230					235					240
Ile	Arg	Val	His	Met	Ala	His	Ile	Thr	His	Pro	Leu	Val	Gly	Asp	Pro
				245					250					255	
Val	Tyr	Gly	Gly	Arg	Pro	Arg	Pro	Pro	Lys	Gly	Ala	Ser	Asp	Glu	Phe
			260					265					270		
Ile	Ser	Val	Leu	Arg	Lys	Phe	Asp	Arg	Gln	Ala	Leu	His	Ala	Thr	Met
		275					280					285			
Leu	Arg	Leu	Tyr	His	Pro	Ile	Thr	Gly	Ile	Gln	Met	Glu	Trp	His	Ala
		290				295					300				
Pro	Ile	Pro	Gln	Asp	Met	Val	Glu	Leu	Ile	Asp	Ala	Met	Arg	Ala	Asp
305					310					315					320
Phe	Glu	Glu	His	Lys	Asp	His	Val	Asp	Trp	Leu					
				325					330						

<210> 6794

<211> 378

<212> PRT

<213> Enterobacter cloacae

<400> 6794

Tyr	Arg	Cys	Val	Thr	Ser	Ser	Arg	Lys	Thr	Thr	Ile	Ala	Asn	Glu	Phe
1				5					10					15	
Asp	Arg	Ile	Ala	Ile	Met	Gln	Lys	Asp	Ala	Leu	Asn	Asn	Val	His	Ile
			20					25					30		
Thr	Asp	Glu	Gln	Val	Leu	Ile	Thr	Pro	Asp	Gln	Leu	Lys	Ala	Glu	Phe
		35					40					45			
Pro	Leu	Ser	Val	Ala	Gln	Glu	Ala	Gln	Ile	Glu	His	Ser	Arg	Gln	Thr
		50				55					60				
Ile	Ser	Asp	Ile	Ile	Ala	Gly	Arg	Asp	Pro	Arg	Leu	Leu	Val	Val	Cys
65					70					75					80
Gly	Pro	Cys	Ser	Ile	His	Asp	Pro	Glu	Thr	Ala	Ile	Glu	Tyr	Ala	Arg
				85					90					95	
Arg	Phe	Lys	Ala	Leu	Ala	Glu	Glu	Val	Ser	Asp	Ser	Leu	Tyr	Leu	Val
			100					105					110		
Met	Arg	Val	Tyr	Phe	Glu	Lys	Pro	Arg	Thr	Thr	Val	Gly	Trp	Lys	Gly
		115					120					125			
Leu	Ile	Asn	Asp	Pro	His	Met	Asp	Gly	Ser	Phe	Asp	Val	Glu	Ala	Gly
		130				135					140				
Leu	Lys	Ile	Ala	Arg	Arg	Leu	Leu	Val	Glu	Leu	Val	Ser	Met	Gly	Leu
145					150					155					160

Pro Leu Ala Thr Glu Ala Leu Asp Pro Asn Ser Pro Gln Tyr Leu Gly
 165 170 175
 Asp Leu Phe Ser Trp Ser Ala Ile Gly Ala Arg Thr Thr Glu Ser Gln
 180 185 190
 Thr His Arg Glu Met Ala Ser Gly Leu Ser Met Pro Val Gly Phe Lys
 195 200 205
 Asn Gly Thr Asp Gly Ser Leu Ala Thr Ala Ile Asn Ala Met Arg Ala
 210 215 220
 Ala Ala Met Pro His Arg Phe Val Gly Ile Asn Gln Ala Gly Gln Val
 225 230 235 240
 Cys Leu Leu Gln Thr Gln Gly Asn Pro Asp Gly His Val Ile Leu Arg
 245 250 255
 Gly Gly Lys Ala Pro Asn Tyr Ser Pro Ala Asp Val Ala Gln Cys Glu
 260 265 270
 Lys Glu Met Glu Gln Ala Gly Leu Arg Pro Ala Leu Met Val Asp Cys
 275 280 285
 Ser His Gly Asn Ser Asn Lys Asp Tyr Arg Arg Gln Pro Ala Val Ala
 290 295 300
 Glu Ser Val Ile Ala Gln Ile Lys Asp Gly Asn Arg Ser Ile Ile Gly
 305 310 315 320
 Leu Met Ile Glu Ser Tyr Ile His Glu Gly Asn Gln Ser Ser Glu Gln
 325 330 335
 Pro Arg Ile Ala Met Lys Pro Gly Val Ser Val Thr Asp Ala Cys Ile
 340 345 350
 Ser Trp Glu Thr Thr Asp Ala Leu Leu Arg Glu Ile His Lys Asp Leu
 355 360 365
 Asn Gly Gln Leu Ala Thr Arg Leu Ala
 370 375

<210> 6795

<211> 129

<212> PRT

<213> Enterobacter cloacae

<400> 6795

Pro Ile Thr Ala Ser Trp Asn Ile Ser Val Phe Ile Pro Ala Cys Val
 1 5 10 15
 Cys Ala Trp Lys Pro Gly Val Leu Thr Arg Ser Ala Cys Thr Trp Arg
 20 25 30
 Ile Leu Pro Ile Arg Trp Trp Val Thr Arg Phe Thr Ala Val Val Arg
 35 40 45
 Val His Gln Arg Ala His Arg Met Asn Ser Ser Pro Cys Cys Val Asn
 50 55 60
 Ser Ile Ala Arg Arg Cys Met Arg Arg Cys Cys Val Phe Thr Thr Gln
 65 70 75 80
 Ser Pro Glu Phe Arg Trp Asn Gly Met Arg Arg Ser His Arg Ile Trp
 85 90 95
 Trp Asn Leu Ser Thr Arg Cys Ala Gln Ile Ser Lys Asn Ile Arg Ile
 100 105 110
 Thr Trp Thr Gly Tyr Asp Gln Thr Asp Cys Pro Gly Val Ala Thr Ala
 115 120 125

<210> 6796

<211> 518

<212> PRT

<213> Enterobacter cloacae

<400> 6796

Thr Lys Arg Arg Arg Tyr Ile Ala Ile Leu Arg Gly Leu Lys Glu Arg

1				5					10				15
Tyr	Glu	Leu	His	His	Val	Gln	Ile	Thr	Asp	Pro	Ala	Ile	Val
			20				25					30	Ala
Ala	Ala	Thr	Leu	Ser	His	Arg	Tyr	Ile	Ala	Asp	Arg	Gln	Leu
		35					40					45	Pro
Lys	Ala	Ile	Asp	Leu	Ile	Asp	Glu	Ala	Ala	Ser	Ser	Ile	Arg
	50					55				60		Met	Gln
Ile	Asp	Ser	Lys	Pro	Glu	Glu	Leu	Asp	Arg	Leu	Asp	Arg	Ile
65					70				75				80
Gln	Leu	Lys	Leu	Glu	Gln	Gln	Ala	Leu	Asn	Lys	Glu	Ser	Asp
			85					90					95
Ser	Lys	Lys	Arg	Leu	Asp	Met	Leu	Asn	Glu	Glu	Leu	Asp	Glu
			100				105					110	Lys
Arg	Gln	Tyr	Ser	Glu	Leu	Glu	Glu	Trp	Lys	Ala	Glu	Lys	Ala
		115				120					125		Ser
Leu	Ser	Gly	Thr	Gln	Thr	Ile	Lys	Ala	Glu	Leu	Glu	Gln	Ala
	130				135						140		Lys
Ala	Ile	Glu	Gln	Ala	Arg	Arg	Val	Gly	Asp	Leu	Ala	Arg	Met
145					150				155				160
Leu	Gln	Tyr	Gly	Lys	Ile	Pro	Glu	Leu	Glu	Lys	Gln	Leu	Glu
			165					170					175
Thr	Gln	Ser	Glu	Gly	Lys	Thr	Met	Arg	Leu	Leu	Arg	Asn	Lys
		180					185					190	Val
Asp	Ala	Glu	Ile	Ala	Glu	Val	Leu	Ala	Arg	Trp	Thr	Gly	Ile
	195					200					205		Pro
Ala	Arg	Met	Met	Glu	Ser	Glu	Arg	Glu	Lys	Leu	Leu	Arg	Met
	210					215					220		Gln
Asp	Leu	His	Gln	Arg	Val	Ile	Gly	Gln	Asn	Glu	Ala	Val	Glu
225					230				235				240
Ser	Asn	Ala	Ile	Arg	Arg	Ser	Arg	Ala	Gly	Leu	Ser	Asp	Pro
			245					250					255
Pro	Ile	Gly	Ser	Phe	Leu	Phe	Leu	Gly	Pro	Thr	Gly	Val	Gly
		260					265					270	Lys
Glu	Leu	Cys	Lys	Ala	Leu	Ala	Asn	Phe	Met	Phe	Asp	Ser	Asp
	275						280				285		Ala
Met	Val	Arg	Ile	Asp	Met	Ser	Glu	Phe	Met	Glu	Lys	His	Ala
	290				295					300			Val
Arg	Leu	Val	Gly	Ala	Pro	Pro	Gly	Tyr	Val	Gly	Tyr	Glu	Glu
305					310				315				Gly
Tyr	Leu	Thr	Glu	Ala	Val	Arg	Arg	Arg	Pro	Tyr	Ser	Val	Ile
			325					330					335
Asp	Glu	Val	Glu	Lys	Ala	His	Pro	Asp	Val	Phe	Asn	Ile	Leu
			340					345				350	Leu
Val	Leu	Asp	Asp	Gly	Arg	Leu	Thr	Asp	Gly	Gln	Gly	Arg	Thr
	355						360				365		Val
Phe	Arg	Asn	Thr	Val	Val	Ile	Met	Thr	Ser	Asn	Leu	Gly	Ser
	370					375				380			Asp
Ile	Gln	Glu	Arg	Phe	Gly	Glu	Leu	Asp	Tyr	Ser	His	Met	Lys
385					390				395				400
Val	Leu	Gly	Val	Val	Ser	Gln	Asn	Phe	Arg	Pro	Glu	Phe	Ile
			405					410					415
Ile	Asp	Glu	Val	Val	Val	Phe	His	Pro	Leu	Gly	Glu	Lys	His
	420						425					430	Ile
Ser	Ile	Ala	Gln	Ile	Gln	Leu	Gln	Arg	Leu	Tyr	Lys	Arg	Leu
	435					440					445		Glu
Arg	Gly	Tyr	Glu	Ile	His	Ile	Ser	Asp	Asp	Ala	Leu	Lys	Leu
	450				455					460			Ser
Glu	Asn	Gly	Tyr	Asp	Pro	Val	Tyr	Gly	Ala	Arg	Pro	Leu	Lys
465					470				475				480
Ile	Gln	Gln	Gln	Ile	Glu	Asn	Pro	Leu	Ala	Gln	Gln	Ile	Leu
				485				490					495

Glu Leu Val Pro Gly Lys Val Ile Arg Leu Glu Ala Asn Glu Asp Arg
 500 505 510
 Ile Val Ala Val Gln
 515

<210> 6797

<211> 533

<212> PRT

<213> Enterobacter cloacae

<400> 6797

Ser Met Arg Leu Leu Arg Ala Val Ser Ala Cys Thr Gly Arg Asp Ala
 1 5 10 15
 Gly Ala Tyr Arg Ser Ala Gln Arg Gly Val Ala Ala Ala Arg Glu
 20 25 30
 Ala Ala Ser Ser Gly Gly Gln Pro Leu Ala Leu Phe Pro Leu Ala Leu
 35 40 45
 Pro Arg Tyr Pro Arg Ala Ala Ala Ser Val Cys Phe Leu Pro Leu Lys
 50 55 60
 Gln Asn His Ser Leu Phe Ala Leu Lys Arg Lys Ser Met Thr Thr Cys
 65 70 75 80
 Thr Pro Arg Ala Ala Trp Gly Asn Leu Leu Arg Arg Leu His Phe Tyr
 85 90 95
 Ile Gly Leu Phe Val Gly Pro Phe Ile Phe Phe Ala Ala Leu Thr Gly
 100 105 110
 Thr Leu Tyr Val Ala Thr Pro Gln Leu Glu Asn Ala Leu Tyr His Tyr
 115 120 125
 Ala Leu His Thr Asp Ala Val Gly Glu Ala Gln Pro Leu Ala Lys Gln
 130 135 140
 Ile Thr Val Ala Glu Lys Ala Val Gly Ser Ala Leu Arg Leu His Ala
 145 150 155 160
 Val Arg Pro Gly Leu Glu Glu Gly Glu Thr Thr Arg Val Met Phe Ala
 165 170 175
 Asp Pro Ala Leu Gly Pro Ser Glu His Arg Ala Ile Phe Ile Asp Pro
 180 185 190
 Ala Ser Leu Glu Val Arg Gly Asp Met Thr Val Tyr Gly Thr Ser Gly
 195 200 205
 Ile Leu Pro Leu Arg Gln Thr Ile Asp Tyr Leu His Thr Ser Leu Met
 210 215 220
 Leu Gly Asn Ile Gly Arg Leu Tyr Ser Glu Leu Ala Ala Ser Trp Met
 225 230 235 240
 Trp Val Ala Ala Leu Gly Gly Ile Ala Leu Trp Phe Tyr Thr Arg Pro
 245 250 255
 Lys Arg Arg Ile Asn Asn Arg Phe Gln Asn Arg Arg Arg Leu His Val
 260 265 270
 Ile Leu Gly Trp Thr Leu Leu Thr Gly Met Leu Leu Phe Ser Val Thr
 275 280 285
 Gly Leu Thr Trp Ser Gln Trp Ala Gly Gly Asn Val Asp Lys Leu Arg
 290 295 300
 Ala Glu Met Asn Trp Leu Thr Pro Gln Val Asn Thr Thr Leu Ser Gly
 305 310 315 320
 Ala Pro Glu Met Arg Asp Glu His Ala Glu His Arg Gly His His Gly
 325 330 335
 Gly Met Thr Met Pro Glu Met Pro Val Glu Leu Ser Leu Phe Asp Ser
 340 345 350
 Val Leu Gln Ala Ala Arg Gln Ser Gly Ile Asp Ala Lys Lys Val Glu
 355 360 365
 Ile Arg Pro Ala Ser Arg Asp Asp Gln Ala Trp Thr Val Thr Glu Ile
 370 375 380
 Asp Arg Arg Trp Pro Thr Gln Val Asp Ala Val Ala Val Asp Pro His
 385 390 395 400

Ser Leu Lys Val Leu Asp Ser Thr Arg Phe Gly Asp Phe Pro Leu Met
 405 410 415
 Ala Lys Leu Thr Arg Trp Gly Val Asp Phe His Met Gly Ile Leu Phe
 420 425 430
 Gly Leu Ala Asn Gln Leu Leu Leu Ile Ala Phe Gly Val Ala Leu Cys
 435 440 445
 Val Leu Ile Ile Trp Gly Tyr Arg Met Trp Trp Met Arg Arg Pro Ala
 450 455 460
 Thr Ser Ala Ala Asn Pro Val Gln Thr Leu Cys Gln Ser Trp Leu Ala
 465 470 475 480
 Leu Pro Leu Trp Gly Arg Gly Val Thr Phe Leu Ile Ser Leu Leu Leu
 485 490 495
 Gly Leu Ala Leu Pro Val Met Gly Val Ser Leu Val Val Phe Ile Val
 500 505 510
 Ile Asp Trp Leu Arg Trp Arg Ala Val Ser Gly Val Ser Leu Ala Gly
 515 520 525
 Thr Ser Val Lys
 530

<210> 6798

<211> 387

<212> PRT

<213> Enterobacter cloacae

<400> 6798

Thr Ala Ser Trp Arg Arg Val Trp His Lys Arg Ile Val Met Val Ala
 1 5 10 15
 Glu Leu Thr Ala Leu Arg Asp Gln Ile Asp Glu Val Asp Lys Ala Leu
 20 25 30
 Leu Asp Leu Leu Ala Arg Arg Met Ala Leu Val Ala Glu Val Gly Glu
 35 40 45
 Val Lys Ser Lys Tyr Gly Leu Pro Ile Tyr Val Pro Glu Arg Glu Ala
 50 55 60
 Ser Met Leu Ala Ser Arg Arg Lys Glu Ala Gln Ala Leu Gly Val Ser
 65 70 75 80
 Pro Asp Leu Ile Glu Asp Val Leu Arg Arg Val Met Arg Glu Ser Tyr
 85 90 95
 Ser Ser Glu Asn Asp Lys Gly Phe Lys Thr Leu Cys Pro Ser Leu Arg
 100 105 110
 Pro Val Val Ile Val Gly Gly Gly Gly Gln Met Gly Arg Leu Phe Glu
 115 120 125
 Lys Met Leu Thr Leu Ser Gly Tyr Gln Val Arg Ile Leu Glu Lys Glu
 130 135 140
 Asp Trp Pro His Ala Pro Glu Leu Met Lys Asp Ala Gly Met Val Ile
 145 150 155 160
 Val Ser Val Pro Ile His Val Thr Glu Gln Ile Ile Ala Lys Leu Pro
 165 170 175
 Pro Leu Pro Glu Asp Cys Ile Leu Val Asp Leu Ala Ser Val Lys Asn
 180 185 190
 Gly Pro Leu Gln Ala Met Leu Ala Ala His Thr Gly Pro Val Leu Gly
 195 200 205
 Leu His Pro Met Phe Gly Pro Asp Ser Gly Ser Leu Ala Lys Gln Val
 210 215 220
 Val Val Tyr Cys Asp Gly Arg Gln Pro Glu Ala Tyr Gln Trp Phe Leu
 225 230 235 240
 Glu Gln Ile Gln Val Trp Gly Ala Arg Leu His Arg Ile Ser Ala Val
 245 250 255
 Glu His Asp Gln Asn Met Ala Phe Ile Gln Ala Leu Arg His Phe Ala
 260 265 270
 Thr Phe Ala Tyr Gly Leu His Leu Ala Glu Glu Asn Val Gln Leu Glu
 275 280 285

Gln Leu Leu Ala Leu Ser Ser Pro Ile Tyr Arg Leu Glu Leu Ala Met
 290 295 300
 Val Gly Arg Leu Phe Ala Gln Asp Pro Gln Leu Tyr Ala Asp Ile Ile
 305 310 315 320
 Met Ser Ser Glu Asn Asn Leu Ala Leu Ile Lys Arg Tyr Tyr Gln Arg
 325 330 335
 Phe Gly Glu Ala Ile Thr Leu Leu Glu His Gly Asp Lys Gln Ala Phe
 340 345 350
 Ile Asp Ser Phe Arg Lys Val Glu His Trp Phe Gly Asp Tyr Ala Thr
 355 360 365
 Arg Phe Gln Ser Glu Ser Arg Thr Leu Leu Arg Gln Ala Asn Asp Ser
 370 375 380
 Arg Gln
 385

<210> 6799

<211> 311

<212> PRT

<213> Enterobacter cloacae

<400> 6799

Cys Asn Asp Val Tyr Thr Glu Ser Gln His Cys Trp Leu Phe Ser Phe
 1 5 10 15
 Trp Gly Thr Val Met Ala Glu Pro Gln Leu Leu Leu Asn Tyr Thr Gly
 20 25 30
 His Leu Pro Glu Cys Pro Thr Trp Ser Ala Glu Glu Lys Ala Leu Tyr
 35 40 45
 Trp Ala Asp Ile Leu Glu Gly Glu Ile His Arg Tyr His Leu Pro Thr
 50 55 60
 Ala Glu His Ser Val Leu Ser Phe His Glu Glu Val Gly Cys Phe Ala
 65 70 75 80
 Leu Arg Glu Arg Gly Gly Phe Ile Val Ala Met Arg Asn Ala Ile Trp
 85 90 95
 Leu Thr Asp Lys His Gly Leu Leu Gln Arg Lys Val Cys Asp Asn Pro
 100 105 110
 Ser Asn Pro Gln Leu Ala Arg Phe Asn Asp Gly Gly Thr Asp His Gln
 115 120 125
 Gly Arg Phe Tyr Ala Gly Thr Phe Trp Gly Pro Gly Asp Tyr Asn Gly
 130 135 140
 Ala Met Leu Met Arg Ile Asp Asn Asp Leu Thr Pro Lys Val Ile Gln
 145 150 155 160
 Cys Asp Ile His Gly His Asn Gly Leu Ala Phe Ser Pro Asp Lys Arg
 165 170 175
 Trp Met Phe Thr Ser Asp Thr Pro Asn Gly Val Ile Tyr Arg Thr Pro
 180 185 190
 Leu Asp Glu Gln Gly Glu Pro Gly Lys Arg Glu Glu Phe Arg Arg Phe
 195 200 205
 Ser Glu Gly Asp Gly Ile Pro Asp Gly Ala Ala Met Asp Glu Glu Gly
 210 215 220
 Cys Tyr Trp Ser Ala Leu Phe Asp Gly Trp Arg Ile Ala Arg Phe Ser
 225 230 235 240
 Pro Gln Gly Glu Gln Leu Glu Glu His Arg Leu Pro Val Arg Cys Pro
 245 250 255
 Thr Met Val Cys Phe Gly Gly Asp Asp Met Lys Thr Leu Phe Ile Thr
 260 265 270
 Thr Thr Arg Glu Asn Met Glu Ala Glu Glu Leu Ala Lys Tyr Pro Leu
 275 280 285
 Ser Gly Ala Ile Phe Thr Leu Pro Val Asn Val Ala Gly Met Lys Lys
 290 295 300
 Ser Arg Phe Ile Glu His
 305 310

<210> 6800
 <211> 250
 <212> PRT
 <213> Enterobacter cloacae

<400> 6800

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Gly Ser Arg Gly Leu Val Met Thr Lys Leu Ile Val Pro Glu Trp Pro
1      5      10      15
Leu Pro Glu Gly Val Ala Ala Cys Ser Ser Thr Arg Ile Gly Gly Val
      20      25      30
Ser Gln Gly Ala Trp Glu Ser Leu Asn Leu Gly Ala His Cys Gly Asp
      35      40      45
Asn Leu Glu His Val Glu Glu Asn Arg Lys Arg Leu Phe Ala Ala Gly
      50      55      60
Asn Leu Pro Ser Lys Pro Val Trp Leu Glu Gln Val His Gly Lys Ala
65      70      75      80
Val Leu Lys Leu Thr Gly Glu Pro Tyr Ala Ser Lys Arg Ala Asp Ala
      85      90      95
Ser Tyr Ser Asn Thr Pro Gly Thr Val Cys Ala Val Met Thr Ala Asp
      100     105     110
Cys Leu Pro Val Leu Phe Cys Asn Gln Ala Gly Thr Glu Val Ala Ala
      115     120     125
Ala His Ala Gly Trp Arg Gly Leu Cys Glu Gly Val Leu Glu Glu Thr
      130     135     140
Val Ala Cys Phe Gln Asp Asp Ser Ala Asn Leu Ile Ala Trp Leu Gly
145     150     155     160
Pro Ala Ile Gly Pro Gln Ala Phe Glu Val Gly Pro Glu Val Arg Asp
      165     170     175
Ala Phe Met Glu Lys Asp Pro Gln Ala Val Glu Ala Phe Val Ala Ser
      180     185     190
Gly Asp Lys Tyr Leu Ala Asp Ile Tyr Gln Leu Ala Arg Gln Arg Leu
      195     200     205
Asn Asn Val Gly Val Thr Gln Ile Phe Gly Gly Asp Arg Cys Thr Phe
      210     215     220
Thr Glu Lys Gly Asp Phe Phe Ser Tyr Arg Arg Asp Lys Thr Thr Gly
225     230     235     240
Arg Met Ala Ser Phe Ile Trp Leu Ile
      245     250

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<210> 6801
 <211> 359
 <212> PRT
 <213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (343)

<400> 6801

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Pro Val Met Gly Gly Val Met Arg Leu Asp Arg Leu Thr Asn Lys Phe
1      5      10      15
Gln Leu Ala Leu Ala Asp Ala Gln Ser Leu Ala Leu Gly His Asp Asn
      20      25      30
Gln Phe Ile Glu Pro Leu His Leu Met Ser Ala Leu Leu Asn Gln Glu
      35      40      45
Gly Gly Ser Val Arg Pro Leu Leu Thr Ser Ala Gly Ile Asn Ala Gly
      50      55      60
Gln Leu Arg Thr Ala Ile Asp Gln Ala Leu Ser Arg Leu Pro Gln Val
65      70      75      80
Glu Gly Thr Gly Gly Asp Val Gln Pro Ser Gln Asp Leu Val Arg Val

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				85					90					95			
Leu	Asn	Leu	Cys	Asp	Lys	Leu	Ala	Gln	Lys	Arg	Gly	Asp	Asn	Phe	Ile		
			100					105					110				
Ser	Ser	Glu	Leu	Phe	Val	Leu	Ala	Ala	Leu	Glu	Ser	Arg	Gly	Thr	Leu		
		115					120					125					
Thr	Asp	Leu	Leu	Lys	Ser	Ala	Gly	Ala	Thr	Thr	Ala	Asn	Val	Thr	Gln		
	130					135					140						
Ala	Ile	Glu	Lys	Met	Arg	Gly	Gly	Glu	Ser	Val	Asn	Asp	Gln	Gly	Ala		
145					150					155					160		
Glu	Asp	Gln	Arg	Gln	Ala	Leu	Lys	Lys	Phe	Thr	Val	Asp	Leu	Thr	Glu		
				165					170					175			
Arg	Ala	Glu	Gln	Gly	Lys	Leu	Asp	Pro	Val	Ile	Gly	Arg	Asp	Glu	Glu		
			180					185					190				
Ile	Arg	Arg	Thr	Ile	Gln	Val	Leu	Gln	Arg	Arg	Thr	Lys	Asn	Asn	Pro		
		195					200					205					
Val	Leu	Ile	Gly	Glu	Pro	Gly	Val	Gly	Lys	Thr	Ala	Ile	Val	Glu	Gly		
	210					215					220						
Leu	Ala	Gln	Arg	Ile	Val	Asn	Gly	Glu	Val	Pro	Glu	Gly	Leu	Lys	Gly		
225					230					235					240		
Arg	Arg	Val	Leu	Ala	Leu	Asp	Met	Gly	Ala	Leu	Val	Ala	Gly	Ala	Lys		
				245					250					255			
Tyr	Arg	Gly	Glu	Phe	Glu	Glu	Arg	Leu	Lys	Gly	Val	Leu	Asn	Asp	Leu		
		260						265					270				
Ala	Lys	Gln	Glu	Gly	Asn	Val	Ile	Leu	Phe	Ile	Asp	Glu	Leu	His	Thr		
		275					280					285					
Met	Val	Gly	Ala	Gly	Lys	Ala	Asp	Gly	Ala	Met	Asp	Ala	Gly	Asn	Met		
	290					295					300						
Leu	Lys	Pro	Ala	Leu	Ala	Arg	Gly	Glu	Leu	His	Cys	Val	Gly	Ala	Thr		
305					310					315					320		
Thr	Leu	Asp	Glu	Tyr	Arg	Gln	Tyr	Ile	Glu	Lys	Asp	Ala	Ala	Leu	Glu		
				325					330					335			
Arg	His	Phe	Gln	Lys	Val	Xaa	Val	Ala	Glu	Pro	Ser	Val	Glu	Asp	Thr		
			340					345					350				
Ser	Pro	Phe	Cys	Val	Val												
			355														

<210> 6802

<211> 233

<212> PRT

<213> Enterobacter cloacae

<400> 6802

Ala	Trp	Leu	Trp	Trp	Ala	Ala	Pro	Val	Trp	Asn	Glu	Gln	Val	Pro	Asp		
1				5					10					15			
Asn	Pro	Pro	Asn	Glu	Ile	Tyr	Ala	Thr	Ala	Gln	Gln	Lys	Leu	Gln	Asp		
			20					25					30				
Gly	Asn	Trp	Lys	Gln	Ala	Ile	Thr	Gln	Leu	Glu	Ala	Leu	Asp	Asn	Arg		
	35						40					45					
Tyr	Pro	Phe	Gly	Pro	Tyr	Ser	Gln	Gln	Val	Gln	Leu	Asp	Leu	Ile	Tyr		
	50					55					60						
Ala	Tyr	Tyr	Lys	Asn	Ala	Asp	Leu	Pro	Leu	Ala	Gln	Ala	Thr	Ile	Asp		
65				70					75					80			
Arg	Phe	Met	Arg	Leu	Asn	Pro	Thr	His	Pro	Asn	Ile	Asp	Tyr	Val	Met		
				85					90					95			
Tyr	Met	Arg	Gly	Leu	Thr	Asn	Met	Ala	Leu	Asp	Asp	Ser	Ala	Leu	Gln		
			100					105					110				
Gly	Phe	Phe	Gly	Val	Asp	Arg	Ser	Asp	Arg	Asp	Pro	Gln	His	Ala	Arg		
		115					120					125					
Asp	Ala	Phe	Asn	Asp	Phe	Ser	Lys	Leu	Val	Arg	Ser	Tyr	Pro	Asn	Ser		
	130					135					140						
Gln	Tyr	Ile	Thr	Asp	Ala	Thr	Lys	Arg	Leu	Val	Phe	Leu	Lys	Asp	Arg		

145		150		155		160									
Leu	Ala	Lys	Tyr	Glu	Tyr	Ser	Val	Ala	Glu	Tyr	Tyr	Thr	Arg	Arg	Gly
				165					170					175	
Ala	Trp	Val	Ala	Val	Val	Asn	Arg	Val	Glu	Gly	Met	Leu	Arg	Asp	Tyr
			180					185					190		
Pro	Asp	Thr	Gln	Ala	Thr	Arg	Asp	Gly	Leu	Lys	Leu	Met	Glu	Asn	Ala
		195					200					205			
Tyr	Arg	Gln	Met	Gln	Met	Thr	Ala	Gln	Ala	Asp	Lys	Val	Ala	Lys	Ile
	210					215					220				
Ile	Ala	Ala	Asn	Ser	Ser	Asn	Thr								
225					230										

<210> 6803

<211> 132

<212> PRT

<213> Enterobacter cloacae

<400> 6803

His	Trp	Val	Gly	Tyr	Ala	Gly	Ile	Thr	Lys	Thr	Glu	Arg	Gln	Glu	Val
1				5					10					15	
Lys	Phe	Met	Thr	Met	Asn	Ile	Thr	Ser	Lys	Gln	Met	Glu	Ile	Thr	Pro
			20					25					30		
Ala	Ile	Arg	Gln	His	Val	Ala	Asp	Arg	Leu	Ala	Lys	Leu	Asp	Lys	Trp
		35					40					45			
Gln	Thr	His	Leu	Ile	Asn	Pro	His	Ile	Ile	Leu	Ser	Lys	Glu	Pro	Gln
	50				55						60				
Gly	Phe	Ile	Ala	Asp	Ala	Thr	Ile	Asn	Thr	Pro	Asn	Gly	His	Leu	Val
65				70					75					80	
Ala	Ser	Ala	Lys	His	Glu	Asp	Met	Tyr	Thr	Ala	Ile	Asn	Asp	Leu	Ile
				85				90					95		
Asn	Lys	Leu	Glu	Arg	Gln	Leu	Asn	Lys	Val	Gln	His	Lys	Gly	Glu	Ala
		100					105						110		
Arg	Arg	Ala	Ala	Thr	Ser	Val	Lys	Asp	Ala	Ser	Phe	Ala	Glu	Glu	Val
		115					120					125			
Glu	Glu	Glu													
		130													

<210> 6804

<211> 143

<212> PRT

<213> Enterobacter cloacae

<400> 6804

Asn	Tyr	Thr	Arg	Thr	Leu	Val	Ser	Gln	Ala	Met	Leu	Thr	Lys	Arg	Arg
1				5					10					15	
Ile	Ala	Met	Arg	Ser	Ile	Thr	Leu	Met	Leu	Leu	Ser	Leu	Ile	Leu	Ser
			20					25					30		
Gly	Cys	Gln	Ile	Asn	Pro	Tyr	Ala	Phe	Gln	Pro	Gly	Trp	Thr	Ser	Pro
	35						40					45			
Asp	Trp	Phe	Thr	Ala	Gly	Lys	Glu	Asp	Ala	Met	Asn	Gly	Val	Pro	Val
	50					55					60				
Lys	Asp	Asn	Gln	Ala	Leu	Ala	Asp	Ser	Phe	Asn	Asp	Pro	Gln	Val	Asp
65				70					75					80	
Arg	Gly	Glu	Tyr	Leu	Arg	Gly	Tyr	Ala	Asp	Gly	Gln	Lys	Lys	Ile	Cys
				85				90					95		
Glu	Glu	Gly	Phe	Ile	His	Ala	Trp	Gly	Leu	Ala	Gly	Lys	Ser	Phe	Pro
			100					105					110		
Ala	Ser	Cys	Asp	Thr	Thr	Glu	Asn	Ala	Val	Lys	Leu	Tyr	Glu	Ser	Trp
		115					120					125			
Gln	Gln	Gly	Met	Asp	Glu	Ser	Met	Arg	Ser	Ser	Arg	Leu	Asn		
		130					135					140			

<210> 6805
 <211> 200
 <212> PRT
 <213> Enterobacter cloacae

<400> 6805

Thr	Met	Val	Phe	Cys	Arg	Gln	Phe	Leu	Arg	Thr	Ser	Ile	Ser	Gly	Ala
1				5					10					15	
Val	Trp	Arg	Ile	Leu	Met	Arg	Asn	Ala	Ile	Leu	Ile	Ala	Leu	Leu	Arg
		20					25					30			
Leu	Pro	Leu	Ala	Leu	Met	Leu	Phe	Ile	Leu	Val	Ala	Pro	Ala	Lys	Ala
		35					40				45				
Gly	Ser	Phe	Thr	Glu	Thr	Asp	Lys	Ser	Val	Arg	Ser	Ile	Val	Ser	Gly
	50					55					60				
Ile	Val	Ser	Tyr	Thr	Arg	Trp	Pro	Ala	Leu	Ser	Gly	Gln	Pro	Lys	Leu
65					70					75					80
Cys	Ile	Tyr	Ala	Ser	Ser	His	Tyr	Arg	Gln	Ala	Leu	Ser	Ser	Glu	Asp
				85					90					95	
Glu	His	Asn	Pro	Leu	Pro	Tyr	Ser	Pro	Val	Ile	Val	His	Ser	Asp	Arg
		100						105					110		
Glu	Ala	Leu	Thr	Ala	Arg	Cys	Asp	Ala	Leu	Tyr	Phe	Gly	Ser	Glu	Ser
		115					120					125			
Pro	Ala	Lys	Gln	Gln	Glu	Ile	Ile	Asn	Gln	Tyr	Gln	Gly	Gln	Ala	Leu
		130				135					140				
Leu	Leu	Met	Ser	Glu	Gln	Asn	Pro	Glu	Cys	Val	Ile	Gly	Ser	Ala	Phe
145					150					155					160
Cys	Leu	Ile	Ile	Glu	His	Asn	Gln	Val	Arg	Phe	Ser	Val	Asn	Leu	Asp
				165					170					175	
Ala	Leu	Ala	Arg	Ser	Gly	Val	Arg	Val	Asn	Pro	Asp	Val	Leu	Met	Leu
			180					185					190		
Ala	Arg	Asn	Lys	Lys	His	Glu									
		195					200								

<210> 6806
 <211> 393
 <212> PRT
 <213> Enterobacter cloacae

<400> 6806

Asn	Glu	Thr	Asp	Asn	Thr	Met	Thr	Pro	Glu	Asn	Pro	Leu	Leu	Asp	Leu
1				5					10					15	
Arg	Val	Lys	Ile	Ser	Ala	Leu	Asp	Glu	Lys	Leu	Leu	Ala	Leu	Leu	Ala
			20					25					30		
Glu	Arg	Arg	Ala	Leu	Ala	Val	Glu	Val	Gly	Lys	Ala	Lys	Leu	Glu	Ser
		35					40					45			
His	Arg	Pro	Val	Arg	Asp	Ile	Asp	Arg	Glu	Arg	Asp	Leu	Leu	Glu	Arg
	50					55					60				
Leu	Ile	Gln	Leu	Gly	Lys	Ala	His	His	Leu	Asp	Ala	His	Tyr	Ile	Thr
65					70					75					80
Arg	Leu	Phe	Gln	Leu	Ile	Ile	Glu	Asp	Ser	Val	Leu	Thr	Gln	Gln	Ala
			85					90						95	
Leu	His	Gln	Gln	His	Leu	Asn	Lys	Thr	Asn	Pro	His	Ser	Ala	Arg	Ile
			100					105					110		
Ala	Phe	Leu	Gly	Pro	Lys	Gly	Ser	Tyr	Ser	His	Leu	Ala	Ala	Arg	Gln
		115					120					125			
Tyr	Ala	Ala	Arg	His	Phe	Glu	Glu	Phe	Ile	Glu	Ser	Gly	Cys	Ala	Lys
		130				135					140				
Phe	Ala	Asp	Ile	Phe	Asn	Gln	Val	Glu	Thr	Gly	Gln	Ala	Asp	Tyr	Ala
145					150					155					160
Val	Val	Pro	Ile	Glu	Asn	Thr	Ser	Ser	Gly	Ala	Ile	Asn	Asp	Val	Tyr

Asp	Leu	Leu	Gln	165	Thr	Ser	Leu	Ser	170	Leu	Val	Gly	Glu	Leu	175	Thr	Ile
			180					185						190			
Pro	Ile	Asp	His	Cys	Val	Leu	Val	Ser	Gly	Ser	Thr	Asp	Leu	Asn	Gln		
		195					200					205					
Ile	Glu	Thr	Val	Tyr	Ser	His	Pro	Gln	Pro	Phe	Gln	Gln	Cys	Ser	Gln		
	210					215					220						
Phe	Leu	Asn	Arg	Tyr	Pro	His	Trp	Lys	Ile	Glu	Tyr	Thr	Glu	Ser	Thr		
225					230					235					240		
Ser	Ala	Ala	Met	Glu	Lys	Val	Ala	Gln	Ala	Asn	Ser	Pro	Ala	Val	Ala		
			245						250					255			
Ala	Leu	Gly	Ser	Glu	Ala	Gly	Gly	Ala	Leu	Tyr	Gly	Leu	Gln	Val	Leu		
		260					265					270					
Glu	Arg	Asn	Leu	Ala	Asn	Gln	Thr	Gln	Asn	Ile	Thr	Arg	Phe	Val	Val		
		275				280					285						
Leu	Ala	Arg	Lys	Ala	Ile	Asn	Val	Ser	Asp	Gln	Val	Pro	Ala	Lys	Thr		
	290				295					300							
Thr	Leu	Leu	Met	Ala	Thr	Gly	Gln	Gln	Ala	Gly	Ala	Leu	Val	Glu	Ala		
305					310					315					320		
Leu	Leu	Val	Leu	Arg	Asn	His	Asn	Leu	Ile	Met	Thr	Lys	Leu	Glu	Ser		
			325						330					335			
Arg	Pro	Ile	His	Gly	Asn	Pro	Trp	Glu	Glu	Met	Phe	Tyr	Leu	Asp	Val		
			340					345					350				
Gln	Ala	Asn	Leu	Glu	Ser	Ala	Ser	Met	Gln	Lys	Ala	Leu	Arg	Glu	Leu		
		355					360					365					
Gly	Glu	Ile	Thr	Arg	Ser	Met	Lys	Val	Leu	Gly	Cys	Tyr	Pro	Ser	Glu		
	370				375						380						
Thr	Val	Val	Pro	Val	Asp	Pro	Ala										
385					390												

<210> 6807

<211> 414

<212> PRT

<213> Enterobacter cloacae

<400> 6807

Cys	Ser	His	Gly	Ile	Arg	Ser	Met	Asn	Lys	Glu	Val	Val	Pro	Thr	Pro		
1			5					10					15				
Arg	Pro	Thr	Phe	Lys	Arg	Thr	Leu	Arg	Ile	Ser	Met	Ile	Ser	Val			
			20				25					30					
Ile	Ile	Thr	Met	Thr	Phe	Ile	Trp	Leu	Leu	Leu	Cys	Phe	Ala	Ser	Val		
		35					40				45						
Val	Thr	Leu	Lys	Gln	Tyr	Ala	Gln	Lys	Asn	Leu	Glu	Leu	Thr	Gly	Ala		
	50				55					60							
Thr	Met	Ser	His	Ser	Leu	Glu	Ala	Ser	Leu	Val	Phe	Asn	Asp	Ala	Val		
65				70					75					80			
Ala	Ala	Asn	Glu	Thr	Leu	Ala	Thr	Leu	Gly	Lys	Gln	Gly	Gln	Phe	Ala		
			85					90					95				
Val	Ala	Glu	Val	Leu	Asn	Ala	His	His	Lys	Arg	Phe	Ala	Trp	Trp	Ser		
			100				105						110				
Trp	Asn	Pro	Ala	Asp	Asn	Thr	Asp	Thr	Leu	Gly	Ala	Leu	Val	Asn	Arg		
		115				120						125					
Trp	Leu	Phe	Pro	Val	Pro	Val	Ala	Gln	Pro	Ile	Ile	His	Asn	Gly	Asn		
	130				135						140						
Val	Ile	Gly	Glu	Ile	Arg	Leu	Thr	Ala	Arg	Asp	Ser	Leu	Ile	Ser	His		
145				150					155					160			
Phe	Ile	Trp	Leu	Ser	Phe	Ala	Val	Leu	Thr	Gly	Cys	Ile	Leu	Phe	Ala		
			165					170					175				
Ser	Ala	Val	Ala	Leu	Thr	Ile	Thr	Arg	Ser	Leu	His	His	Gly	Met	Val		
		180					185						190				
Val	Glu	Met	Gln	Asn	Ile	Thr	Asp	Val	Val	His	Asp	Val	Arg	Thr	Asn		

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<210> 6808
<211> 166
<212> PRT
<213> Enterobacter cloacae
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<210> 6809
<211> 272
<212> PRT
<213> Enterobacter cloacae
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<400> 6809

Leu Ala Ala Leu Glu Pro Gly Leu His Arg Ser Gly Gly Glu Ser Met
 1 5 10 15
 Asn Thr Ala Arg Leu Asn Gln Gly Thr Pro Leu Leu Leu Asn Gly Val
 20 25 30
 Thr Lys Arg Tyr Gly Asp Asn Thr Ile Leu Asn Ala Leu Asp Leu His
 35 40 45
 Ile Pro Ala Gly Gln Phe Val Ala Val Val Gly Arg Ser Gly Gly Gly
 50 55 60
 Lys Ser Thr Leu Leu Arg Leu Leu Ala Gly Leu Glu Ala Pro Asn Ser
 65 70 75 80
 Gly Asp Ile Leu Ala Gly Thr Thr Pro Leu Ala Thr Ile Gln Asp Asp
 85 90 95
 Thr Arg Met Met Phe Gln Asp Ala Arg Leu Leu Pro Trp Lys Thr Val
 100 105 110
 Met Asp Asn Val Gly Leu Gly Leu Lys Gly Ser Trp Arg Glu Asp Ala
 115 120 125
 Arg Gln Ala Leu Ala Ala Val Gly Leu Glu Asn Arg Ala Gly Glu Trp
 130 135 140
 Pro Ala Ala Leu Ser Gly Gln Lys Gln Arg Val Ala Leu Ala Arg
 145 150 155 160
 Ala Leu Ile His Arg Pro Gly Leu Leu Leu Leu Asp Glu Pro Leu Gly
 165 170 175
 Ala Leu Asp Ala Leu Thr Arg Ile Glu Met Gln Asp Leu Ile Glu Thr
 180 185 190
 Leu Trp Gln Thr His Gly Phe Thr Val Leu Leu Val Thr His Asp Val
 195 200 205
 Ser Glu Ala Val Ala Met Ala Asp Arg Val Leu Leu Ile Glu Glu Gly
 210 215 220
 Lys Ile Gly Leu Asp Leu Thr Val Asp Ile Pro Arg Pro Arg Arg Val
 225 230 235 240
 Gly Ser Ala Arg Leu Gly Glu Leu Glu Ala Glu Val Leu Asp Arg Val
 245 250 255
 Met Lys Arg Gly Val Ser Glu Arg Val Leu Ile Lys Ala Asn Ala
 260 265 270

<210>'6810

<211> 83

<212> PRT

<213> Enterobacter cloacae

<400> 6810

Thr Gly Tyr Thr Pro Glu Leu Phe Ile Val Leu Asn Ala Pro Val Arg
 1 5 10 15
 Gly Cys Tyr Ser Ala Pro Met Thr Gln Phe Ala Ser Pro Val Leu His
 20 25 30
 Thr Leu Leu Asp Thr Asp Ala Tyr Lys Leu His Met Gln Gln Ala Val
 35 40 45
 Phe His His Tyr His Asp Val His Val Ala Ala Glu Phe Arg Cys Arg
 50 55 60
 Gly Asp Asp Leu Leu Gly Ile Tyr Ala Asp Ser Ile Arg Ala Thr Gly
 65 70 75 80
 Leu His

<210> 6811

<211> 195

<212> PRT

<213> Enterobacter cloacae

<400> 6811

Gly	Ala	Thr	Met	Arg	Val	Ile	Thr	Leu	Ala	Gly	Ser	Pro	Arg	Phe	Pro
1				5					10					15	
Ser	Arg	Ser	Ser	Ala	Leu	Leu	Glu	Tyr	Ala	Arg	Glu	Lys	Leu	Asn	Ala
			20				25						30		
Leu	Asp	Val	Glu	Val	Cys	His	Trp	Asn	Leu	His	Asn	Phe	Ala	Pro	Glu
	35						40					45			
Asp	Leu	Leu	Tyr	Ala	Arg	Phe	Asp	Ser	Pro	Ala	Leu	Lys	Thr	Leu	Ile
	50					55					60				
Glu	Gln	Leu	Lys	Ser	Ala	Asp	Gly	Leu	Val	Val	Ala	Thr	Pro	Ile	Tyr
65				70					75					80	
Lys	Ala	Ser	Phe	Ser	Gly	Ala	Leu	Lys	Thr	Leu	Leu	Asp	Leu	Leu	Pro
				85					90					95	
Glu	Arg	Ala	Leu	Asp	Gly	Lys	Val	Val	Leu	Pro	Leu	Ala	Thr	Gly	Gly
			100					105						110	
Thr	Val	Ala	His	Leu	Leu	Ala	Val	Asp	Tyr	Ala	Leu	Lys	Pro	Val	Leu
		115					120						125		
Asn	Ala	Leu	Lys	Ala	Gln	Glu	Ile	Leu	His	Gly	Val	Phe	Ala	Asp	Asp
	130					135					140				
Ser	Gln	Val	Ile	Asp	Tyr	Gln	His	Lys	Pro	His	Phe	Thr	Pro	Asn	Leu
145				150						155					160
Gln	Thr	Arg	Leu	Asp	Ser	Ala	Leu	Glu	Thr	Phe	Trp	His	Ala	Leu	Asn
				165					170					175	
Arg	Arg	Asp	Arg	His	Ala	Ala	Ala	Phe	His	Gln	Ser	Gln	Gly	Val	Ala
			180					185					190		
His	Val														
															195

<210> 6812

<211> 386

<212> PRT

<213> Enterobacter cloacae

<400> 6812

Arg	Lys	Lys	Ile	Met	Ser	Leu	Asn	Leu	Phe	Trp	Phe	Leu	Pro	Thr	His
1				5					10					15	
Gly	Asp	Gly	His	Tyr	Leu	Gly	Thr	Glu	Glu	Gly	Ala	Arg	Pro	Val	Asp
			20					25					30		
His	Gly	Tyr	Leu	Gln	Gln	Ile	Ala	Gln	Ala	Ala	Asp	Arg	Ile	Gly	Phe
		35					40					45			
Thr	Gly	Val	Leu	Ile	Pro	Thr	Gly	Arg	Ser	Cys	Glu	Asp	Ala	Trp	Leu
	50					55					60				
Val	Ala	Ala	Ser	Met	Ile	Pro	Val	Thr	Gln	Arg	Leu	Lys	Phe	Leu	Val
65				70					75					80	
Ala	Leu	Arg	Pro	Ser	Val	Val	Ser	Pro	Thr	Val	Ala	Ala	Arg	Gln	Ala
				85					90					95	
Ala	Thr	Leu	Asp	Arg	Leu	Ser	Asn	Gly	Arg	Ala	Leu	Phe	Asn	Leu	Val
			100					105						110	
Thr	Gly	Ser	Asp	Pro	Gln	Glu	Leu	Ala	Gly	Asp	Gly	Val	Phe	Leu	Asp
		115					120					125			
His	Thr	Glu	Arg	Tyr	Glu	Ala	Ser	Ala	Glu	Phe	Thr	Arg	Val	Trp	Arg
	130					135						140			
Arg	Leu	Leu	Glu	Gly	Glu	Thr	Val	Thr	Phe	Glu	Gly	Lys	His	Ile	His
145				150					155					160	
Val	Arg	Asp	Ala	Gln	Leu	Tyr	Phe	Pro	Pro	Leu	Gln	Gln	Pro	Arg	Pro
				165					170					175	
Pro	Leu	Tyr	Phe	Gly	Gly	Ser	Ser	Asp	Val	Ala	Gln	Glu	Leu	Ala	Ala
			180					185					190		
Glu	Gln	Val	Asp	Leu	Tyr	Leu	Thr	Trp	Gly	Glu	Pro	Pro	Glu	Leu	Val
		195					200					205			
Lys	Glu	Lys	Ile	Ala	Gln	Val	Arg	Ala	Lys	Ala	Ala	Glu	His	Gly	Arg

210	215	220
Thr Val Arg Phe Gly Ile Arg Leu His Val Ile Val Arg Glu Thr Asn		
225	230	235
Asp Glu Ala Trp Gln Ala Ala Asp Arg Leu Ile Ala His Leu Asp Asp		240
	245	250
Asp Thr Ile Ala Lys Ala Gln Ala Ala Phe Ala Lys Thr Asp Ser Val		255
	260	265
Gly Gln His Arg Met Ala Ser Leu His Asn Gly Lys Arg Glu Asn Leu		270
	275	280
Glu Ile Ser Pro Asn Leu Trp Ala Gly Val Gly Leu Val Arg Gly Gly		285
	290	295
Ala Gly Thr Ala Leu Val Gly Asp Gly Pro Thr Val Ala Ala Arg Ile		300
305	310	315
Asn Glu Tyr Ala Ala Leu Gly Ile Asp Ser Phe Ile Leu Ser Gly Tyr		320
	325	330
Pro His Leu Glu Glu Ala Tyr Lys Val Gly Glu Leu Leu Phe Pro His		335
	340	345
Leu Asp Val Ala Ile Pro Glu Ile Pro Gln Pro Arg Gln Leu Gln Leu		350
	355	360
Gln Gly Glu Ala Val Ala Asn Ala Phe Ile Pro Arg Lys Val Ala Gln		365
370	375	380
Ser		
385		

<210> 6813

<211> 267

<212> PRT

<213> Enterobacter cloacae

<400> 6813

Gly Ala Thr Met Ser Ala Thr Ala Gln Lys Trp Leu Leu Arg Ala Ala		
1	5	10
Pro Trp Phe Leu Pro Val Gly Ile Val Leu Val Trp Gln Leu Ala Ser		15
	20	25
Ser Thr Gly Trp Leu Ser Ser Arg Ile Leu Pro Ser Pro Glu Gly Val		30
	35	40
Val Glu Ala Phe Trp Ser Leu Ser Ala Ser Gly Glu Leu Trp Gln His		45
	50	55
Leu Ala Ile Ser Ser Trp Arg Ala Val Ile Gly Phe Ser Ile Gly Gly		60
65	70	75
Ser Ile Gly Leu Thr Leu Gly Leu Ile Ser Gly Leu Ser Arg Trp Gly		80
	85	90
Glu Arg Leu Leu Asp Thr Ser Val Gln Met Leu Arg Asn Val Pro His		95
	100	105
Leu Ala Leu Ile Pro Leu Val Ile Leu Trp Phe Gly Ile Asp Glu Ser		110
	115	120
Ala Lys Ile Phe Leu Val Ala Leu Gly Thr Leu Phe Pro Ile Tyr Ile		125
	130	135
Asn Thr Trp His Gly Ile Arg Asn Ile Asp Arg Gly Leu Val Glu Met		140
145	150	155
Ala Arg Ser Tyr Gly Leu Ser Gly Phe Ala Leu Phe Thr His Val Ile		160
	165	170
Leu Pro Gly Ala Leu Pro Ser Ile Met Val Gly Val Arg Phe Ala Leu		175
	180	185
Gly Leu Met Trp Leu Thr Leu Ile Val Ala Glu Thr Ile Ser Ala Asn		190
	195	200
Ser Gly Ile Gly Tyr Leu Ala Met Asn Ala Arg Glu Phe Leu Gln Thr		205
	210	215
Asp Val Val Val Val Ala Ile Val Leu Tyr Ala Leu Leu Gly Lys Leu		220
225	230	235
Ala Asp Val Ser Ala Gln Trp Leu Glu Arg Ser Trp Leu Arg Trp Asn		240

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<210> 6814
<211> 338
<212> PRT
<213> Enterobacter cloacae
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[illegible]

<400> 6815

Tyr Arg Thr Phe Arg Gly Arg Glu Arg Asn Met Arg Ile Lys Pro Asp
 1 5 10 15
 Asp Asn Trp Arg Trp Tyr Phe Cys Glu His Asp Arg Met Leu
 20 25 30
 Asp Leu Ala Asn Gly Met Leu Phe Arg Ser Arg Phe Ala Arg Arg Met
 35 40 45
 Leu Thr Pro Asp Ala Phe Ala Pro Ser Gly Phe Cys Val Asp Asp Ala
 50 55 60
 Ala Leu Tyr Phe Ser Phe Glu Glu Lys Cys Arg Asp Leu Asp Leu Ser
 65 70 75 80
 Lys Glu Gln Arg Ala Glu Leu Val Leu Ser Leu His His Gly Thr Gly
 85 90 95
 Arg Ile Arg Val Met Leu
 100

<210> 6816

<211> 906

<212> PRT

<213> Enterobacter cloacae

<400> 6816

Leu Lys Arg Ala Leu Cys Leu Lys Arg Arg Thr Phe Cys Ile Ala Arg
 1 5 10 15
 Phe Thr Gln Gln Glu Tyr Ile Glu Ser Leu Leu Asp Lys Arg Cys Ile
 20 25 30
 Arg Phe Ser Met Thr Gln Gln Pro Gln Ala Lys Tyr Arg His Asp Tyr
 35 40 45
 Arg Ala Pro Glu Tyr Leu Ile Ser Asp Ile Asp Leu Thr Phe Asp Leu
 50 55 60
 Asp Ala Thr Lys Thr Val Val Thr Ala Val Ser Gln Val Thr Arg Gln
 65 70 75 80
 Ser Ala Thr Ala Val Ser Leu Arg Leu Asp Gly Glu Asp Leu Thr Leu
 85 90 95
 Val Ser Leu His Ile Asn Asp Glu Ala Trp Ser Asp Tyr Lys Glu Glu
 100 105 110
 Gly Asn Gln Leu Val Ile Asp Asn Leu Pro Glu Arg Phe Thr Leu Arg
 115 120 125
 Ile Val Asn Glu Ile Ser Pro Ala Ala Asn Thr Ala Leu Glu Gly Leu
 130 135 140
 Tyr Gln Ser Gly Val Ala Leu Cys Thr Gln Cys Glu Ala Glu Gly Phe
 145 150 155 160
 Arg His Ile Thr Trp Tyr Leu Asp Arg Pro Asp Val Leu Ala Arg Phe
 165 170 175
 Thr Thr Lys Ile Ile Ala Asp Lys Thr Leu Tyr Pro Tyr Leu Leu Ser
 180 185 190
 Asn Gly Asn Arg Ile Gly Glu Gly Glu Leu Glu Asn Gly Arg His Trp
 195 200 205
 Val Gln Trp Gln Asp Pro Phe Pro Lys Pro Cys Tyr Leu Phe Ala Leu
 210 215 220
 Val Ala Gly Asp Phe Asp Val Leu Arg Asp Thr Phe Lys Thr Arg Ser
 225 230 235 240
 Gly Arg Glu Val Ala Leu Glu Leu Phe Val Asp Arg Gly Asn Leu Asp
 245 250 255
 Arg Ala Pro Trp Ala Met Thr Ser Leu Ile Asn Ser Met Lys Trp Asp
 260 265 270
 Glu Thr Arg Phe Gly Leu Glu Tyr Asp Leu Asp Ile Tyr Met Ile Val
 275 280 285
 Ala Val Asp Phe Phe Asn Met Gly Ala Met Glu Asn Lys Gly Leu Asn
 290 295 300
 Ile Phe Asn Ser Lys Tyr Val Leu Ala Arg Thr Asp Thr Ala Thr Asp
 305 310 315 320

Lys	Asp	Tyr	Leu	Asp	Ile	Glu	Arg	Val	Ile	Gly	His	Glu	Tyr	Phe	His
				325					330					335	
Asn	Trp	Thr	Gly	Asn	Arg	Val	Thr	Cys	Arg	Asp	Trp	Phe	Gln	Leu	Ser
			340					345					350		
Leu	Lys	Glu	Gly	Leu	Thr	Val	Phe	Arg	Asp	Gln	Glu	Phe	Ser	Ser	Asp
		355					360					365			
Leu	Gly	Ser	Arg	Ala	Val	Asn	Arg	Ile	Asn	Asn	Val	Arg	Thr	Met	Arg
	370					375					380				
Gly	Leu	Gln	Phe	Ala	Glu	Asp	Ala	Ser	Pro	Met	Ala	His	Pro	Ile	Arg
385					390					395					400
Pro	Asp	Lys	Val	Ile	Glu	Met	Asn	Asn	Phe	Tyr	Thr	Leu	Thr	Val	Tyr
			405						410					415	
Glu	Lys	Gly	Ala	Glu	Ile	Ile	Arg	Met	Ile	His	Thr	Leu	Leu	Gly	Glu
			420					425					430		
Glu	Asn	Phe	Gln	Lys	Gly	Met	Gln	Leu	Tyr	Phe	Glu	Arg	His	Asp	Gly
		435					440					445			
Ser	Ala	Ala	Thr	Cys	Asp	Asp	Phe	Val	Gln	Ala	Met	Glu	Asp	Ala	Ser
	450					455					460				
Asn	Val	Asp	Leu	Ser	His	Phe	Arg	Arg	Trp	Tyr	Ser	Gln	Ala	Gly	Thr
465					470					475					480
Pro	Ile	Val	Thr	Val	Lys	Asp	Asp	Tyr	Asn	Pro	Glu	Thr	Glu	Gln	Tyr
				485					490					495	
Thr	Leu	Thr	Ile	Ser	Gln	Arg	Thr	Pro	Pro	Thr	Ala	Glu	Gln	Glu	Glu
			500					505					510		
Lys	His	Pro	Leu	His	Ile	Pro	Phe	Ser	Val	Glu	Leu	Tyr	Asp	Asn	Glu
	515						520					525			
Gly	Asn	Val	Ile	Pro	Leu	Gln	Lys	Gly	Gly	His	Pro	Val	His	Asn	Val
	530					535					540				
Leu	Asn	Val	Thr	Gln	Ala	Glu	Gln	Thr	Phe	Ile	Phe	Asp	Asn	Val	Tyr
545					550					555					560
Phe	Gln	Pro	Val	Pro	Ala	Leu	Leu	Cys	Glu	Phe	Ser	Ala	Pro	Val	Lys
				565					570					575	
Leu	Glu	Tyr	Lys	Trp	Ser	Asp	Gln	Gln	Leu	Thr	Phe	Leu	Met	Arg	His
			580				585						590		
Ala	Arg	Asn	Asp	Phe	Ser	Arg	Trp	Asp	Ala	Ala	Gln	Ser	Leu	Leu	Ala
	595						600					605			
Thr	Tyr	Ile	Lys	Leu	Asn	Val	Asn	Arg	Tyr	Gln	Gln	Gly	Gln	Pro	Leu
	610					615					620				
Thr	Leu	Pro	Val	His	Val	Ala	Asp	Ala	Phe	Arg	Ala	Ile	Leu	Leu	Asp
625					630					635					640
Glu	Asn	Ile	Asp	Pro	Ala	Leu	Ala	Ala	Glu	Ile	Leu	Thr	Leu	Pro	Ser
				645					650					655	
Ala	Thr	Glu	Ile	Ala	Glu	Leu	Phe	Asp	Ile	Ile	Asp	Pro	Ile	Ala	Ile
			660					665					670		
Val	Ala	Val	Arg	Glu	Ala	Leu	Thr	Arg	Thr	Leu	Val	Thr	Glu	Leu	Ala
	675						680					685			
Asp	Glu	Phe	Leu	Ala	Ile	Tyr	Asn	Ala	Asn	Lys	Leu	Asp	Ala	Tyr	Arg
	690					695					700				
Val	Glu	His	Ala	Asp	Ile	Gly	Lys	Arg	Ser	Leu	Arg	Asn	Thr	Cys	Leu
705					710					715					720
Arg	Tyr	Leu	Ala	Phe	Gly	Glu	Ala	Glu	Leu	Ala	Asn	Thr	Leu	Val	Ser
				725					730					735	
Lys	Gln	Tyr	His	Glu	Ala	Asp	Asn	Met	Thr	Asp	Ala	Leu	Ala	Ala	Leu
			740					745					750		
Ala	Ala	Ser	Val	Ala	Ala	Glu	Leu	Pro	Cys	Arg	Asp	Ala	Leu	Met	Gln
		755					760					765			
Glu	Tyr	Asp	Asp	Lys	Trp	Tyr	Gln	Asp	Gly	Leu	Val	Met	Asp	Lys	Trp
	770					775					780				
Phe	Ile	Leu	Gln	Ala	Thr	Ser	Pro	Ala	Ala	Asp	Val	Leu	Ser	Lys	Val
785					790					795					800
Arg	Ser	Leu	Leu	Lys	His	Arg	Ser	Phe	Thr	Met	Ser	Asn	Pro	Asn	Arg

				805					810					815			
Val	Arg	Ser	Leu	Ile	Gly	Ala	Phe	Ala	Ser	Ser	Asn	Pro	Ala	Ala	Phe		
			820					825					830				
His	Ala	Glu	Asp	Gly	Ser	Gly	Tyr	Gln	Phe	Met	Val	Glu	Met	Leu	Thr		
		835					840					845					
Glu	Leu	Asn	Ser	Arg	Asn	Pro	Gln	Val	Ala	Ser	Arg	Leu	Ile	Glu	Pro		
		850				855					860						
Leu	Ile	Arg	Leu	Lys	Arg	Tyr	Asp	Ala	Gln	Arg	Gln	Ala	Lys	Met	Arg		
865					870					875					880		
Ala	Ala	Leu	Glu	Gln	Leu	Lys	Gly	Leu	Glu	Asn	Leu	Ser	Gly	Asp	Leu		
			885						890					895			
Tyr	Glu	Lys	Ile	Ala	Lys	Ala	Leu	Ala									
			900					905									

<210> 6817

<211> 350

<212> PRT

<213> Enterobacter cloacae

<400> 6817

Ser	Pro	Pro	Gly	Leu	His	Thr	Gly	Asn	Pro	Gly	Glu	Phe	Met	Tyr	Tyr		
1			5					10					15				
Pro	Phe	Val	Arg	Lys	Ala	Leu	Phe	Gln	Leu	Asp	Pro	Glu	Arg	Ala	His		
			20					25				30					
Glu	Phe	Thr	Phe	Gln	Gln	Leu	Arg	Arg	Ile	Thr	Gly	Thr	Pro	Leu	Ala		
		35					40					45					
Ala	Leu	Val	His	Gln	Asn	Val	Pro	Glu	Lys	Pro	Val	Gln	Cys	Met	Gly		
		50				55					60						
Leu	Thr	Phe	Lys	Asn	Pro	Leu	Gly	Leu	Ala	Ala	Gly	Leu	Asp	Lys	Asn		
65				70					75						80		
Gly	Glu	Cys	Ile	Asp	Ala	Leu	Gly	Ala	Met	Gly	Phe	Gly	Ser	Ile	Glu		
			85					90						95			
Ile	Gly	Thr	Val	Thr	Pro	Arg	Pro	Gln	Pro	Gly	Asn	Asp	Lys	Pro	Arg		
			100					105					110				
Leu	Phe	Arg	Leu	Val	Glu	Ala	Glu	Gly	Leu	Ile	Asn	Arg	Met	Gly	Phe		
		115					120					125					
Asn	Asn	Leu	Gly	Val	Asp	His	Leu	Val	Glu	Asn	Val	Lys	Lys	Ala	His		
		130				135						140					
Phe	Asp	Gly	Val	Leu	Gly	Ile	Asn	Ile	Gly	Lys	Asn	Lys	Asp	Thr	Pro		
145				150						155					160		
Val	Glu	Gln	Gly	Lys	Asp	Asp	Tyr	Leu	Ile	Cys	Met	Glu	Lys	Val	Tyr		
			165					170						175			
Ala	Tyr	Ala	Gly	Tyr	Ile	Ala	Val	Asn	Ile	Ser	Ser	Pro	Asn	Thr	Pro		
			180					185					190				
Gly	Leu	Arg	Ser	Leu	Gln	Tyr	Gly	Glu	Ala	Leu	Asp	Asp	Leu	Leu	Ser		
		195					200					205					
Ala	Ile	Lys	Asn	Lys	Gln	Thr	Ala	Leu	Gln	Ala	Ile	His	His	Lys	Tyr		
		210				215						220					
Val	Pro	Val	Ala	Val	Lys	Ile	Ala	Pro	Asp	Leu	Ser	Ala	Glu	Glu	Leu		
225				230						235					240		
Ile	Gln	Val	Ala	Asp	Ser	Leu	Val	Arg	His	Asn	Ile	Asp	Gly	Val	Ile		
			245						250					255			
Ala	Thr	Asn	Thr	Thr	Leu	Asp	Arg	Ser	Leu	Val	Gln	Gly	Met	Lys	Asn		
		260					265						270				
Cys	Asp	Glu	Ala	Gly	Gly	Leu	Ser	Gly	Arg	Pro	Val	Gln	Leu	Lys	Ser		
		275					280					285					
Thr	Glu	Ile	Ile	Arg	Ala	Leu	Ser	Ala	Glu	Leu	Lys	Gly	Gln	Leu	Pro		
		290				295					300						
Ile	Ile	Gly	Val	Gly	Gly	Ile	Asp	Ser	Val	Ile	Ala	Ala	Arg	Glu	Lys		
305				310						315				320			
Met	Ala	Ala	Gly	Ala	Ser	Leu	Val	Gln	Ile	Tyr	Ser	Gly	Phe	Ile	Phe		

				325						330				335
Lys	Gly	Pro	Pro	Leu	Ile	Lys	Glu	Ile	Val	Thr	His	Ile		
			340					345					350	

<210> 6818

<211> 468

<212> PRT

<213> Enterobacter cloacae

<400> 6818

Leu	Ala	Asp	Leu	Glu	Phe	Asp	Pro	Ala	His	Met	Leu	Ser	Ser	Gln	Ser
1			5					10						15	
Pro	Ser	Ile	Tyr	Thr	Val	Ser	Arg	Leu	Asn	Gln	Thr	Val	Arg	Leu	Leu
		20						25					30		
Leu	Glu	Gln	Glu	Met	Gly	Gln	Val	Trp	Ile	Ser	Gly	Glu	Ile	Ser	Asn
		35					40					45			
Phe	Thr	Gln	Pro	Ala	Ser	Gly	His	Trp	Tyr	Phe	Thr	Leu	Lys	Asp	Asp
	50					55					60				
Thr	Ala	Gln	Val	Arg	Cys	Ala	Met	Phe	Arg	Asn	Ser	Asn	Arg	Arg	Val
65					70					75					80
Thr	Phe	Arg	Pro	Gln	His	Gly	Gln	Gln	Val	Leu	Val	Arg	Ala	Asn	Ile
				85					90					95	
Thr	Leu	Tyr	Glu	Pro	Arg	Gly	Asp	Tyr	Gln	Ile	Ile	Val	Glu	Ser	Met
		100						105					110		
Gln	Pro	Ala	Gly	Glu	Gly	Leu	Leu	Gln	Gln	Lys	Tyr	Glu	Gln	Leu	Lys
		115					120					125			
Ala	Met	Leu	Ser	Ala	Glu	Gly	Leu	Phe	Asp	Gln	Gln	Phe	Lys	Lys	Pro
	130					135					140				
Leu	Pro	Ser	Pro	Ala	His	Cys	Val	Gly	Val	Ile	Thr	Ser	Lys	Thr	Gly
145					150					155					160
Ala	Ala	Leu	His	Asp	Ile	Leu	His	Val	Leu	Lys	Arg	Arg	Asp	Pro	Ser
			165					170						175	
Leu	Pro	Val	Ile	Ile	Tyr	Pro	Thr	Ala	Val	Gln	Gly	Asp	Asp	Ala	Pro
		180						185					190		
Gly	Gln	Ile	Val	Arg	Ala	Ile	Glu	Leu	Ala	Asn	Ala	Arg	Gln	Glu	Cys
	195						200					205			
Asp	Val	Leu	Ile	Val	Gly	Arg	Gly	Gly	Gly	Ser	Leu	Glu	Asp	Leu	Trp
	210					215					220				
Ser	Phe	Asn	Asp	Glu	Arg	Val	Ala	Arg	Ala	Ile	Phe	Ala	Ser	Leu	Ile
225					230					235					240
Pro	Val	Val	Ser	Ala	Val	Gly	His	Glu	Thr	Asp	Val	Thr	Ile	Ala	Asp
			245						250					255	
Phe	Val	Ala	Asp	Leu	Arg	Ala	Pro	Thr	Pro	Ser	Ala	Ala	Ala	Glu	Val
		260						265					270		
Val	Ser	Arg	Asn	Gln	Gln	Glu	Leu	Leu	Arg	Gln	Ile	Gln	Asn	Gly	Gln
		275					280					285			
Gln	Arg	Leu	Glu	Met	Ala	Met	Asp	Tyr	Phe	Leu	Ala	Asn	Arg	Thr	Arg
	290					295					300				
Arg	Phe	Thr	Gln	Leu	His	His	Arg	Leu	Gln	Gln	Gln	His	Pro	Gln	Leu
305					310					315					320
Arg	Leu	Ala	Arg	Gln	Gln	Thr	Val	Leu	Glu	Arg	Leu	Arg	Gln	Arg	Met
			325						330					335	
Asn	Phe	Ala	Leu	Asp	Asn	Gln	Leu	Lys	Arg	Ala	Val	Ser	Arg	Gln	Gln
		340						345					350		
Arg	Met	Thr	Gln	Arg	Leu	Asn	Gln	Gln	Asn	Pro	Gln	Pro	Lys	Val	Tyr
	355					360					365				
Arg	Ala	Gln	Thr	Arg	Ile	Gln	Gln	Leu	Glu	Tyr	Arg	Leu	Ala	Glu	Asn
	370					375					380				
Ile	Arg	Ser	Arg	Leu	Ser	Ala	Thr	Arg	Glu	Arg	Phe	Gly	Asn	Ala	Val
385					390					395					400
Thr	His	Leu	Glu	Ala	Val	Ser	Pro	Leu	Ser	Thr	Leu	Ala	Arg	Gly	Tyr

405 410 415
 Ser Val Thr Thr Ala Thr Asp Gly Lys Val Leu Lys Gln Thr Lys Gln
 420 425 430
 Val Lys Ala Gly Asp Val Leu Thr Arg Leu Ser Asp Gly Trp Val
 435 440 445
 Glu Ser Glu Val Lys Glu Ile Lys Pro Val Lys Lys Thr Arg Gln Arg
 450 455 460
 Lys Ser Gly
 465

<210> 6819

<211> 369

<212> PRT

<213> Enterobacter cloacae

<400> 6819

Lys Lys Arg Ala Ser Val Lys Ala Asp Lys Ser Ser Pro Val Thr Asn
 1 5 10 15
 Tyr Thr Ala Ala Ile Ala Phe Phe Asp Lys Glu Ser Ser Met Pro His
 20 25 30
 Leu His Ser Val Ile Pro Pro Tyr Ile Leu Arg Arg Ile Ile Glu Ser
 35 40 45
 Gly Ser Glu Pro Gln Gln Arg Cys Ala Arg Gln Thr Leu Thr His Val
 50 55 60
 Gln Thr Leu Met Ala His Met Pro Gly Lys Pro Ala Ala Pro His Val
 65 70 75 80
 Asn Lys Ala Gly Gln Leu Glu Arg Asp Ile Tyr Asp Ala Lys Gln Thr
 85 90 95
 Gln Glu Leu Pro Gly Ser Gln Val Arg Tyr Glu Gly Gln Pro Ser Asn
 100 105 110
 Gly Asp Val Ala Val Asp Glu Ala Tyr Asp Tyr Leu Gly Ile Thr His
 115 120 125
 Asp Phe Phe Trp Lys Glu Tyr Gln Arg Asp Ser Leu Asp Asn Lys Gly
 130 135 140
 Leu Ile Leu Thr Gly Thr Val His Tyr Gly Arg Glu Tyr Gln Asn Ala
 145 150 155 160
 Phe Trp Asn Gly Gln Gln Met Val Phe Gly Asp Gly Asp Gly Glu Ile
 165 170 175
 Phe Asn Arg Phe Thr Ile Ala Ile Asp Val Val Ala His Glu Leu Ser
 180 185 190
 His Gly Val Thr Glu Thr Glu Ala Gly Leu Ile Tyr Phe Glu Gln Ser
 195 200 205
 Gly Ala Leu Asn Glu Ser Leu Ser Asp Val Phe Gly Ser Leu Val Lys
 210 215 220
 Gln Tyr Tyr Leu Lys Gln Thr Ala Asp Gln Ala Asp Trp Leu Ile Gly
 225 230 235 240
 Glu Gly Leu Leu Ala Ala Gly Ile Asn Gly Lys Gly Leu Arg Ser Met
 245 250 255
 Ser Glu Pro Gly Thr Ala Tyr Asp Asp Pro Leu Leu Gly Lys Asp Pro
 260 265 270
 Gln Pro Ala His Met Lys Asp Phe Ile Lys Thr Arg Glu Asp Asn Gly
 275 280 285
 Gly Val His Leu Asn Ser Gly Ile Pro Asn Arg Ala Phe Tyr Leu Ala
 290 295 300
 Ala Thr Ala Ile Gly Gly Tyr Ala Trp Glu Lys Ala Gly Tyr Ala Trp
 305 310 315 320
 Tyr Asp Thr Val Cys Asp Arg Asn Leu Ala Gln Asp Ala Asp Phe Asp
 325 330 335
 Ala Phe Ala Lys Leu Thr Ile Ala His Gly Glu Lys Arg Ser Gly Ser
 340 345 350
 Asp Val Gly Ala Ala Ile Lys Gln Ala Trp Glu Gln Val Gly Val Leu

355

360

365

<210> 6820
 <211> 145
 <212> PRT
 <213> Enterobacter cloacae

<400> 6820

Asn	Phe	Ala	Arg	Val	His	Phe	Ile	Ser	Ala	Leu	His	Gly	Ser	Gly	Val
1				5					10					15	
Gly	Asn	Leu	Phe	Glu	Ser	Val	Arg	Glu	Ala	Tyr	Asp	Ser	Ser	Thr	Arg
			20					25					30		
Arg	Gln	Ser	Thr	Ala	Met	Leu	Thr	Arg	Ile	Met	Asn	Met	Ala	Ala	Glu
		35					40					45			
Asp	His	Gln	Pro	Pro	Leu	Val	Arg	Gly	Arg	Arg	Val	Lys	Leu	Lys	Tyr
	50					55					60				
Ala	His	Ala	Gly	Gly	Tyr	Asn	Pro	Pro	Ile	Val	Val	Ile	His	Gly	Asn
65					70					75					80
Gln	Val	Lys	Asp	Leu	Pro	Asp	Ser	Tyr	Lys	Arg	Tyr	Leu	Met	Asn	Tyr
				85					90					95	
Phe	Arg	Lys	Ser	Leu	Asp	Val	Met	Gly	Thr	Pro	Ile	Arg	Ile	Gln	Phe
			100					105						110	
Lys	Glu	Gly	Glu	Asn	Pro	Phe	Ala	Asn	Lys	Arg	Asn	Thr	Leu	Thr	Pro
		115					120					125			
Asn	Gln	Met	Arg	Lys	Arg	Lys	Arg	Leu	Ile	Lys	His	Ile	Lys	Lys	Ser
	130					135						140			
Lys															
145															

<210> 6821
 <211> 533
 <212> PRT
 <213> Enterobacter cloacae

<400> 6821

Pro	Phe	Gly	Val	His	Ala	Gly	Val	Tyr	Lys	His	Asp	Thr	Tyr	Leu	Phe
1				5					10					15	
Gly	Arg	Ile	Met	Gln	Ser	Ser	Val	Asn	Gln	Lys	Glu	Ser	Arg	Thr	Phe
			20					25					30		
Phe	Gly	His	Pro	Tyr	Pro	Leu	Gly	Ser	Leu	Phe	Phe	Thr	Glu	Met	Trp
		35					40					45			
Glu	Arg	Phe	Ser	Phe	Tyr	Gly	Ile	Arg	Pro	Leu	Leu	Ile	Leu	Phe	Met
	50					55					60				
Ala	Ala	Thr	Val	Tyr	Asp	Gly	Gly	Met	Gly	Leu	Ala	Arg	Glu	Asn	Ala
65					70					75					80
Ser	Ala	Ile	Val	Gly	Ile	Phe	Ala	Gly	Thr	Met	Tyr	Leu	Ala	Ala	Leu
				85					90					95	
Pro	Gly	Gly	Trp	Leu	Ala	Asp	Asn	Trp	Leu	Gly	Gln	Gln	Arg	Ala	Val
			100					105						110	
Trp	Tyr	Gly	Ser	Ile	Leu	Ile	Ala	Leu	Gly	His	Leu	Ser	Ile	Ala	Leu
		115					120					125			
Ser	Ala	Ile	Met	Gly	Asp	Asn	Leu	Phe	Phe	Ile	Gly	Leu	Met	Phe	Ile
	130					135					140				
Val	Leu	Gly	Ser	Gly	Leu	Phe	Lys	Thr	Cys	Ile	Ser	Val	Met	Val	Gly
145					150					155					160
Thr	Leu	Tyr	Lys	Lys	Gly	Asp	Ala	Arg	Arg	Asp	Gly	Gly	Phe	Ser	Leu
				165					170					175	
Phe	Tyr	Met	Gly	Ile	Asn	Met	Gly	Ser	Phe	Ile	Ala	Pro	Leu	Ile	Ser
			180					185					190		

Gly Trp Leu Ile Lys Thr His Gly Trp His Trp Gly Phe Gly Ile Gly
 195 200 205
 Gly Ile Gly Met Leu Val Ala Leu Ile Ile Phe Arg Val Phe Ala Val
 210 215 220
 Pro Ala Met Lys Arg Tyr Asp Ser Glu Val Gly Leu Asp Ser Thr Trp
 225 230 235 240
 Asn Ser Pro Val Val Lys Arg Asn Gly Val Gly Ala Trp Leu Leu Ala
 245 250 255
 Leu Ala Val Gly Val Ala Ile Ile Val Thr Leu Ile Ala Gln Gly Val
 260 265 270
 Ile Val Ile Asn Pro Val Ala Val Ala Ser Val Leu Val Tyr Val Ile
 275 280 285
 Ala Ala Ser Val Ala Leu Tyr Phe Ile Tyr Leu Phe Ile Phe Ala Gly
 290 295 300
 Leu Asn Arg Lys Glu Arg Ala Arg Leu Leu Val Cys Phe Ile Leu Leu
 305 310 315 320
 Val Ser Ala Ala Phe Phe Trp Ser Ala Phe Glu Gln Lys Pro Thr Ser
 325 330 335
 Phe Asn Leu Phe Ala Asn Asp Tyr Thr Asn Arg Met Ile Gly Asp Phe
 340 345 350
 Glu Ile Pro Ala Val Trp Phe Gln Ser Ile Asn Ala Leu Phe Ile Ile
 355 360 365
 Leu Leu Ala Pro Val Phe Ser Trp Ala Trp Pro Lys Leu Ala Ser Lys
 370 375 380
 Asn Ile Arg Pro Ser Ser Ile Thr Lys Phe Val Ile Gly Ile Leu Cys
 385 390 395 400
 Ala Ala Ala Gly Phe Gly Leu Met Met Leu Ala Ala Gln Asn Val Leu
 405 410 415
 Ser Asn Gly Gly Ala Gly Val Ser Pro Phe Trp Leu Val Gly Ser Ile
 420 425 430
 Leu Met Leu Thr Leu Gly Glu Leu Cys Leu Ser Pro Ile Gly Leu Ala
 435 440 445
 Thr Met Thr Leu Leu Ala Pro Glu Arg Met Arg Gly Gln Met Met Gly
 450 455 460
 Leu Trp Phe Cys Ala Ser Ala Leu Gly Asn Leu Ala Ala Gly Leu Ile
 465 470 475 480
 Gly Gly His Val Lys Ala Asp Gln Leu Asp Met Leu Pro Asp Leu Phe
 485 490 495
 Ala Arg Cys Ser Ile Ala Leu Leu Ile Cys Ala Ala Val Leu Ile Val
 500 505 510
 Leu Ile Val Pro Val Arg Arg Met Leu Glu Asn Ala Gln Thr Lys Pro
 515 520 525
 Ala Thr Glu Ala
 530

<210> 6822

<211> 497

<212> PRT

<213> Enterobacter cloacae

<400> 6822

Pro Pro Arg Ser Glu Ile Leu Pro Met Leu Arg Ile Ala Lys Glu Ala
 1 5 10 15
 Leu Thr Phe Asp Asp Val Leu Leu Val Pro Ala His Ser Thr Val Leu
 20 25 30
 Pro Asn Thr Ala Asp Leu Ser Thr Gln Leu Thr Lys Thr Ile Arg Leu
 35 40 45
 Asn Ile Pro Met Leu Ser Ala Ala Met Asp Thr Val Thr Glu Ala Arg
 50 55 60
 Leu Ala Ile Ala Leu Ala Gln Glu Gly Gly Ile Gly Phe Ile His Lys
 65 70 75 80

Asn	Met	Ser	Ile	Glu	Arg	Gln	Ala	Glu	Glu	Val	Arg	Arg	Val	Lys	Lys
			85						90					95	
His	Glu	Ser	Gly	Ile	Val	Ser	Asp	Pro	Gln	Thr	Val	Leu	Pro	Thr	Thr
			100					105					110		
Thr	Leu	His	Glu	Val	Lys	Ala	Leu	Thr	Glu	Arg	Asn	Gly	Phe	Ala	Gly
		115					120					125			
Tyr	Pro	Val	Val	Thr	Glu	Asp	Asn	Glu	Leu	Val	Gly	Ile	Ile	Thr	Gly
	130					135					140				
Arg	Asp	Val	Arg	Phe	Val	Thr	Asp	Leu	Asn	Gln	Pro	Val	Ser	Val	Tyr
145				150						155					160
Met	Thr	Pro	Lys	Glu	Arg	Leu	Val	Thr	Val	Arg	Glu	Gly	Glu	Thr	Arg
			165						170						175
Asp	Val	Val	Leu	Ala	Lys	Met	His	Glu	Lys	Arg	Val	Glu	Lys	Ala	Leu
			180					185					190		
Val	Val	Asp	Ala	Asn	Phe	His	Leu	Arg	Gly	Met	Ile	Thr	Val	Lys	Asp
		195					200					205			
Phe	Gln	Lys	Ala	Glu	Arg	Lys	Pro	Asn	Ala	Cys	Lys	Asp	Glu	His	Gly
	210					215					220				
Arg	Leu	Arg	Val	Gly	Ala	Ala	Val	Gly	Ala	Gly	Ala	Gly	Asn	Glu	Gln
225				230						235					240
Arg	Val	Asp	Ala	Leu	Val	Ala	Ala	Gly	Val	Asp	Val	Leu	Leu	Ile	Asp
			245						250					255	
Ser	Ser	His	Gly	His	Ser	Glu	Gly	Val	Leu	Gln	Arg	Ile	Arg	Glu	Thr
			260					265					270		
Arg	Ala	Lys	Tyr	Pro	Asp	Leu	Gln	Ile	Ile	Gly	Gly	Asn	Val	Ala	Thr
		275					280					285			
Gly	Ala	Gly	Ala	Arg	Ala	Leu	Ala	Glu	Ala	Gly	Cys	Ser	Ala	Val	Lys
	290					295					300				
Val	Gly	Ile	Gly	Pro	Gly	Ser	Ile	Cys	Thr	Thr	Arg	Ile	Val	Thr	Gly
305				310						315					320
Val	Gly	Val	Pro	Gln	Ile	Thr	Ala	Val	Ser	Asp	Ala	Val	Glu	Ala	Leu
			325						330					335	
Glu	Gly	Thr	Gly	Ile	Pro	Val	Ile	Ala	Asp	Gly	Gly	Ile	Arg	Phe	Ser
			340					345					350		
Gly	Asp	Ile	Ala	Lys	Ala	Ile	Ala	Ala	Gly	Ala	Ala	Ala	Val	Met	Val
		355					360					365			
Gly	Ser	Met	Leu	Ala	Gly	Thr	Glu	Glu	Ser	Pro	Gly	Glu	Ile	Glu	Leu
	370					375					380				
Tyr	Gln	Gly	Arg	Ser	Tyr	Lys	Ser	Tyr	Arg	Gly	Met	Gly	Ser	Leu	Gly
385				390						395					400
Ala	Met	Ser	Lys	Gly	Ser	Ser	Asp	Arg	Tyr	Phe	Gln	Thr	Asp	Asn	Ala
			405						410					415	
Ala	Asp	Lys	Leu	Val	Pro	Glu	Gly	Ile	Glu	Gly	Arg	Val	Ala	Tyr	Lys
			420						425				430		
Gly	Arg	Leu	Lys	Glu	Ile	Ile	His	Gln	Gln	Met	Gly	Gly	Leu	Arg	Ser
		435					440					445			
Cys	Met	Gly	Leu	Thr	Gly	Cys	Gly	Thr	Ile	Asp	Leu	Leu	Arg	Thr	Lys
	450					455					460				
Ala	Glu	Phe	Val	Arg	Ile	Ser	Gly	Ala	Gly	Ile	Gln	Glu	Ser	His	Val
465				470						475					480
His	Asp	Val	Thr	Ile	Thr	Lys	Glu	Ser	Pro	Asn	Tyr	Arg	Leu	Gly	Ser
				485					490					495	

<210> 6823

<211> 116

<212> PRT

<213> Enterobacter cloacae

<400> 6823

Ser Ser Ser Leu Phe Arg Tyr Val Ala Cys Trp Lys Met Arg Lys Leu
 1 5 10 15
 Asn Arg Leu Pro Lys Pro Asp Thr Ile Gln Ser Ala Gly Ala Val Val
 20 25 30
 Leu Ser Arg Pro Asn Ser Thr Gly Glu Ser Met Ser Ile Thr Cys Pro
 35 40 45
 Asp Cys His Ala Ala Leu Glu Pro Gln Asn Gly Ile Ala His Cys Asp
 50 55 60
 Ser Cys Asn Lys Asp Ile Pro Leu Glu Ala Arg Cys Pro Asp Cys His
 65 70 75 80
 Gln Pro Leu Gln Val Leu Lys Ala Cys Gly Ala Val Asp Tyr Phe Cys
 85 90 95
 Gln Asn Gly His Gly Leu Ile Ser Lys Lys Arg Val Glu Phe Val Arg
 100 105 110
 Ala Gly Ala
 115

<210> 6824

<211> 562

<212> PRT

<213> Enterobacter cloacae

<400> 6824

Arg Ser Pro Lys Ser Pro Arg Thr Thr Val Trp Ala Pro Asp Lys Phe
 1 5 10 15
 Pro Arg Pro Ala Gln Cys Arg Ala Leu Cys Phe Val Ser Leu Ala Ser
 20 25 30
 Glu Leu Ala Ser Met Thr Glu Asn Ile His Lys His Arg Ile Leu Ile
 35 40 45
 Leu Asp Phe Gly Ser Gln Tyr Thr Gln Leu Val Ala Arg Arg Val Arg
 50 55 60
 Glu Leu Gly Val Tyr Cys Glu Leu Trp Ala Trp Asp Val Thr Glu Ala
 65 70 75 80
 Gln Ile Arg Glu Phe Asn Pro Ser Gly Ile Ile Leu Ser Gly Gly Pro
 85 90 95
 Glu Ser Thr Thr Glu Glu Asn Ser Pro Arg Ala Pro Gln Tyr Val Phe
 100 105 110
 Glu Ala Gly Val Pro Val Phe Gly Val Cys Tyr Gly Met Gln Thr Met
 115 120 125
 Ala Met Gln Leu Gly Gly His Val Glu Gly Ser Asn Glu Arg Glu Phe
 130 135 140
 Gly Tyr Ala Gln Val Glu Val Val Thr Asp Ser Ala Leu Val Arg Gly
 145 150 155 160
 Ile Glu Asp Ser Leu Thr Ala Asp Gly Lys Pro Leu Leu Asp Val Trp
 165 170 175
 Met Ser His Gly Asp Lys Val Thr Ala Ile Pro Ser Asp Phe Val Thr
 180 185 190
 Val Ala Ser Thr Glu Ser Cys Pro Phe Ala Ile Met Ala Asn Glu Glu
 195 200 205
 Lys Arg Phe Tyr Gly Val Gln Phe His Pro Glu Val Thr His Thr Arg
 210 215 220
 Gln Gly Met Arg Met Leu Glu Arg Phe Val Arg Asp Ile Cys Gln Cys
 225 230 235 240
 Glu Ala Leu Trp Thr Pro Ala Lys Ile Ile Asp Asp Ala Val Glu Arg
 245 250 255
 Ile Arg Gln Gln Val Gly Asp Asp Lys Val Ile Leu Gly Leu Ser Gly
 260 265 270
 Gly Val Asp Ser Ser Val Thr Ala Met Leu Leu His Arg Ala Ile Gly
 275 280 285
 Lys Asn Leu Thr Cys Val Phe Val Asp Asn Gly Leu Leu Arg Leu Asn
 290 295 300

Glu Ala Lys Gln Val Met Asp Met Phe Gly Asp His Phe Gly Leu Asn
 305 310 315 320
 Ile Val His Val Glu Gly Glu Gln Arg Phe Leu Asp Ala Leu Lys Gly
 325 330 335
 Glu Asn Asp Pro Glu Ala Lys Arg Lys Ile Ile Gly Arg Val Phe Val
 340 345 350
 Glu Val Phe Asp Glu Glu Ala Leu Lys Leu Glu Asp Val Lys Trp Leu
 355 360 365
 Ala Gln Gly Thr Ile Tyr Pro Asp Val Ile Glu Ser Ala Ala Ser Ala
 370 375 380
 Thr Gly Lys Ala His Val Ile Lys Ser His His Asn Val Gly Gly Leu
 385 390 395 400
 Pro Lys Glu Met Lys Met Gly Leu Val Glu Pro Leu Arg Glu Leu Phe
 405 410 415
 Lys Asp Glu Val Arg Lys Ile Gly Leu Glu Leu Gly Leu Pro Tyr Asp
 420 425 430
 Met Leu Tyr Arg His Pro Phe Pro Gly Pro Gly Leu Gly Val Arg Val
 435 440 445
 Leu Gly Glu Val Lys Lys Glu Tyr Cys Asp Leu Leu Arg Arg Ala Asp
 450 455 460
 Ala Ile Phe Ile Glu Glu Leu His Lys Ala Asp Leu Tyr Asn Lys Val
 465 470 475 480
 Ser Gln Ala Phe Thr Val Phe Leu Pro Val Arg Ser Val Gly Val Met
 485 490 495
 Gly Asp Gly Arg Lys Tyr Asp Trp Val Val Ser Leu Arg Ala Val Glu
 500 505 510
 Thr Ile Asp Phe Met Thr Ala His Trp Ala His Leu Pro Tyr Asp Phe
 515 520 525
 Leu Gly Arg Val Ser Asn Arg Ile Ile Asn Glu Val Asn Gly Ile Ser
 530 535 540
 Arg Val Val Tyr Asp Ile Ser Gly Lys Pro Pro Ala Thr Ile Glu Trp
 545 550 555 560
 Glu

<210> 6825

<211> 170

<212> PRT

<213> Enterobacter cloacae

<400> 6825

Thr Tyr Ser Ala Asp Leu Pro Ser Tyr Phe Cys Met Gly Cys Val Val
 1 5 10 15
 Glu Met Phe Ala Leu Thr Tyr Thr Leu Lys Lys Thr Arg Arg His Ser
 20 25 30
 Met Lys Glu Asn Asp Ile Val Glu Ile Leu Thr Thr Thr Arg Ser Ile
 35 40 45
 Ala Leu Val Gly Ala Ser Asp Lys Pro Asp Arg Pro Ser Tyr Arg Val
 50 55 60
 Met Lys Tyr Leu Leu Asp Gln Gly Tyr His Val Ile Pro Val Ser Pro
 65 70 75 80
 Lys Val Ala Gly Lys Thr Leu Leu Gly Gln Gln Gly Tyr Ala Thr Leu
 85 90 95
 Ala Asp Val Pro Glu Lys Val Asp Met Val Asp Val Phe Arg Asn Ser
 100 105 110
 Glu Ala Ala Trp Gly Val Ala Gln Glu Ala Ile Ala Ile Gly Ala Lys
 115 120 125
 Thr Leu Trp Met Gln Leu Gly Val Ile Asn Glu Gln Ala Ala Val Leu
 130 135 140
 Ala Arg Asp Ala Gly Leu Lys Val Val Met Asp Arg Cys Pro Ala Ile
 145 150 155 160

Asp Ile Pro Arg Leu Gly Leu Ala Lys
165 170

<210> 6826
<211> 234
<212> PRT
<213> Enterobacter cloacae

<400> 6826
Val Ala Tyr Phe Pro Ala Asn Gly Ser Val Ser Lys Lys Tyr Arg Gly
1 5 10 15
Tyr Cys Met Ile Phe Asn Gly Ile Ile Met Lys Lys Ile Ser Tyr Glu
20 25 30
Arg Ile Tyr Gln Ser Gln Glu Tyr Leu Ser Pro Leu Gly Glu Ile His
35 40 45
His Arg Ala Leu Phe Gly Gly Tyr Thr Leu Ala Val Asp Glu Ala Val
50 55 60
Phe Ala Met Val Ser Asp Gly Glu Leu Tyr Leu Arg Ala Cys Glu Gln
65 70 75 80
Ser Ala Lys Tyr Cys Val Lys Asn Ala Ser Ser Phe Leu Thr Leu Met
85 90 95
Lys Arg Gly Arg Pro Val Leu Leu Asn Tyr Tyr Arg Val Asp Glu Gly
100 105 110
Leu Trp Gln Asn Arg Glu Lys Leu Leu Gln Leu Ser Ser Phe Ala Leu
115 120 125
Asp Ala Ala Arg Lys Glu Arg Tyr Gln Arg His Gln Arg Asn Arg Leu
130 135 140
Lys Asp Leu Pro Asn Leu Thr Phe Gln Ile Glu Val Leu Leu Met Glu
145 150 155 160
Ala Gly Ile Thr Asn Glu Glu Thr Leu Arg Gln Leu Gly Ala Lys Thr
165 170 175
Ser Trp Leu Lys Met Arg Ser Lys Asn Lys Ala Leu Ser Ile Arg Val
180 185 190
Leu Phe Ala Leu Glu Gly Ala Ile Glu Gly Leu His Glu Ala Ala Leu
195 200 205
Pro Ala Asp Ile Arg Arg Glu Leu Thr Glu Trp Phe Asn Ala Leu Pro
210 215 220
Glu Ser Gln Gly His His Ser Ala Arg
225 230

<210> 6827
<211> 692
<212> PRT
<213> Enterobacter cloacae

<400> 6827
Pro Arg Gly Ser Arg Gln Asp Met Glu Leu Lys Ala Thr Ser Met Gly
1 5 10 15
Lys Arg Leu Ala Gln His Pro Tyr Asp Lys Val Val Leu Leu Asn Ala
20 25 30
Gly Val Lys Val Ser Gly Glu Arg His Glu Tyr Leu Ile Pro Phe Asn
35 40 45
Gln Leu Leu Ala Ile His Cys Lys Arg Gly Leu Val Trp Gly Glu Leu
50 55 60
Glu Phe Val Leu Pro Ala Asp Lys Val Val Arg Leu His Gly Thr Glu
65 70 75 80
Trp Ala Glu Thr Gln Arg Phe His Tyr His Leu Asn Thr Arg Trp Gln
85 90 95
Gln Trp Ser Gln Glu Met Ser Val Ile Ala Ala Gln Val Leu Gln Gln
100 105 110
Val Leu Asp Asp Ile Ala Leu Ser Asn Thr Gln Gln Lys Trp Leu Thr

		115					120					125				
Arg	Gln	Gln	Thr	Ala	Gly	Leu	Gln	His	Lys	Ile	Ala	Gln	Ala	Leu	Thr	
	130					135					140					
Ala	Leu	Pro	Leu	Pro	Val	Ala	Arg	Leu	Glu	Glu	Phe	Asp	Asn	Cys	Arg	
145					150					155					160	
Asp	Ala	Trp	Arg	Lys	Cys	Gln	Ala	Trp	Leu	Asn	Asp	Ile	Glu	Lys	Ser	
				165					170					175		
Arg	Leu	Ala	His	Asn	Gln	Ala	Trp	Thr	Glu	Ala	Met	Leu	Thr	Gln	Tyr	
			180					185					190			
Ala	Asp	Phe	Phe	Ser	Thr	Val	Glu	Ser	Ser	Pro	Leu	Asn	Pro	Ala	Gln	
		195					200					205				
Ala	Arg	Ala	Val	Val	Asn	Gly	Glu	Gln	Ser	Leu	Leu	Val	Leu	Ala	Gly	
	210					215					220					
Ala	Gly	Ser	Gly	Lys	Thr	Ser	Val	Leu	Val	Ala	Arg	Ala	Gly	Trp	Leu	
225					230					235					240	
Leu	Thr	Thr	Gly	Glu	Ala	Val	Ala	Asp	Gln	Ile	Leu	Leu	Leu	Ala	Phe	
			245						250					255		
Gly	Arg	Lys	Ala	Ala	Gln	Glu	Met	Asp	Glu	Arg	Ile	Gln	Ala	Arg	Leu	
			260					265					270			
His	Thr	Gln	Asp	Ile	Ser	Ala	Arg	Thr	Phe	His	Ser	Leu	Ala	Leu	His	
		275					280					285				
Ile	Ile	Gln	Gln	Gly	Ser	Lys	Lys	Val	Pro	Val	Val	Ser	Lys	Leu	Glu	
	290					295					300					
Asn	Asp	Ala	Gln	Ala	Arg	Gln	Thr	Leu	Phe	Ile	Lys	Ala	Trp	Arg	Gln	
305					310					315					320	
Gln	Cys	Ser	Glu	Lys	Lys	Ala	Gln	Ala	Lys	Gly	Trp	Arg	Gln	Trp	Leu	
				325					330					335		
Glu	Glu	Glu	Leu	Asn	Trp	Glu	Val	Pro	Glu	Gly	Ser	Phe	Trp	Gln	Asp	
			340					345					350			
Glu	Lys	Leu	Ala	Arg	Arg	Leu	Gly	Ser	Arg	Leu	Asp	Arg	Trp	Val	Ser	
		355					360					365				
Leu	Met	Arg	Met	His	Gly	Gly	Ser	Gln	Ala	Glu	Met	Ile	Glu	Ser	Ala	
	370				375						380					
Pro	Glu	Ser	Ile	Arg	Ala	Val	Phe	Ser	Lys	Arg	Val	Lys	Leu	Met	Ala	
385					390					395					400	
Pro	Met	Leu	Lys	Ala	Trp	Lys	Thr	Ala	Leu	Lys	Asp	Glu	Asn	Ala	Val	
				405					410					415		
Asp	Phe	Ser	Gly	Leu	Ile	His	Gln	Ala	Ile	Ile	Ile	Leu	Glu	Lys	Gly	
			420					425					430			
Arg	Phe	Val	Ser	Pro	Trp	Lys	His	Ile	Leu	Val	Asp	Glu	Phe	Gln	Asp	
		435					440					445				
Ile	Ser	Pro	Gln	Arg	Ala	Ala	Leu	Leu	Ser	Ala	Leu	Arg	Ala	Gln	Asn	
	450					455					460					
Lys	His	Thr	Ser	Leu	Phe	Ala	Val	Gly	Asp	Asp	Trp	Gln	Ala	Ile	Tyr	
465					47											

Ala Asp Tyr Val Ile Val Val Gly Leu Lys Glu Gly Ser Asp Gly Phe
610 615 620
Pro Ala Pro Ala Arg Glu Ser Val Met Glu Glu Ala Leu Leu Pro Val
625 630 635 640
Pro Glu Asp Phe Pro Asp Ala Glu Glu Arg Arg Leu Leu Tyr Val Ala
645 650 655
Ile Thr Arg Ala Arg His Arg Val Trp Leu Leu Phe Asn Lys Glu Glu
660 665 670
Pro Ser Val Phe Val Asp Ile Leu Lys Ser Ile Asp Val Pro Val Ala
675 680 685
Arg Lys Pro
690

<210> 6828

<211> 253

<212> PRT

<213> Enterobacter cloacae

<400> 6828

Gly Gln Ile Gly Arg Ile Cys Leu Tyr Val Ser Lys Arg Val Tyr Arg
1 5 10 15
Lys Ile Leu Ile His Ser Tyr Arg Val Val Cys Leu Gln Glu Ser Ala
20 25 30
Met Lys Thr Gly Ile Ala Trp Ala Val Val Ala Leu Ile Met Pro Val
35 40 45
Cys Val Phe Ala Thr Thr Leu Arg Leu Thr Thr Asp Ile Asp Leu Leu
50 55 60
Val Leu Asp Gly Lys Lys Val Ser Ser Ser Leu Arg Gly Ala Asp
65 70 75 80
Ser Ile Glu Leu Asp Asn Gly Pro His Gln Leu Val Phe Arg Val Glu
85 90 95
Lys Thr Ile Arg Leu Ala Asp Asp Glu Gln Gln Val Tyr Ile Ser Pro
100 105 110
Pro Leu Val Val Ser Phe Asn Thr Gln Arg Ile Ser Gln Val Asn Phe
115 120 125
Arg Leu Pro Arg Leu Glu Thr Glu Lys Glu Ser Leu Ala Phe Asp Ala
130 135 140
Ser Pro Arg Ile Glu Leu Val Asp Gly Asp Ser Met Pro Ile Pro Val
145 150 155 160
Lys Leu Asp Ile Leu Ala Leu Thr Lys Arg Pro Lys Gly Thr Asp Tyr
165 170 175
Glu Ala Asp Thr Glu Thr Tyr Asn Arg Ala Ser Arg Arg Ala Ser Leu
180 185 190
Pro Gln Phe Ala Thr Met Met Ala Asp Asp Ser Thr Leu Leu Ser Gly
195 200 205
Val Ser Glu Leu Asp Val Leu Pro Pro Gln Ser Gln Thr Leu Thr Glu
210 215 220
Gln Arg Leu Lys Phe Trp Phe Gln Asn Ala Asp Pro Asp Thr Arg Ala
225 230 235 240
Arg Phe Leu Gln Trp Ala Lys Gln Gln Pro Ser Ser
245 250

<210> 6829

<211> 85

<212> PRT

<213> Enterobacter cloacae

<400> 6829

Cys Val Lys Arg Gly Ser Gly Thr Cys Ala Pro Arg Tyr Pro Gly Tyr
1 5 10 15
Ala Asn Ala Pro Glu Cys Ala His Pro Ser Pro Ala Pro Pro Cys Asp

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<210> 6830
<211> 399
<212> PRT
<213> Enterobacter cloacae
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Glu 1	Ile	Met	Ser	Val 5	Arg	Leu	Val	Leu	Ala 10	Lys	Gly	Arg	Glu	Lys 15	Ser
Leu	Leu	Arg	Arg 20	His	Pro	Trp	Val	Phe 25	Ser	Gly	Ala	Val	Ala 30	Arg	Met
Glu	Gly	Lys 35	Ala	Ser	Leu	Gly	Glu 40	Thr	Ile	Asp	Ile	Val 45	Asp	His	Gln
Gly	Lys 50	Trp	Leu	Ala	Arg	Gly 55	Ala	Tyr	Ser	Pro	Ala 60	Ser	Gln	Ile	Arg
Ala 65	Arg	Val	Trp	Thr	Phe 70	Asp	Lys	Glu	Glu	Ala 75	Ile	Asp	Ile	Asp	Phe 80
Phe	Val	Arg	Arg	Leu 85	Gln	Gln	Ala	Gln	Gln 90	Trp	Arg	Glu	Trp	Leu 95	Ala
Lys	Arg	Asp	Gly 100	Leu	Asp	Ser	Tyr	Arg 105	Leu	Ile	Ala	Gly	Glu 110	Ser	Asp
Gly	Leu	Pro 115	Gly	Val	Thr	Ile	Asp 120	Arg	Phe	Gly	Asn	Phe 125	Leu	Val	Leu
Gln	Leu 130	Leu	Ser	Ala	Gly	Ala 135	Glu	Tyr	Gln	Arg	Ala 140	Ala	Leu	Ile	Ser
Ala 145	Leu	Gln	Thr	Leu	Phe 150	Pro	Glu	Cys	Ala	Ile 155	Tyr	Asp	Arg	Ser	Asp 160
Val	Ala	Val	Arg	Lys 165	Lys	Glu	Gly	Met	Glu 170	Leu	Thr	Gln	Gly	Pro 175	Val
Thr	Gly	Glu	Leu 180	Pro	Pro	Ala	Leu	Leu 185	Pro	Ile	Glu	Glu	His 190	Gly	Met
Lys	Leu 195	Leu	Val	Asp	Ile	Gln	Gly 200	Gly	His	Lys	Thr	Gly 205	Tyr	Tyr	Leu
Asp	Gln 210	Arg	Asp	Ser	Arg	Leu 215	Ala	Thr	Arg	Gln	Tyr 220	Val	Ala	Asp	Arg
Arg 225	Val	Leu	Asn	Cys	Phe 230	Ser	Tyr	Thr	Gly	Gly 235	Phe	Ala	Val	Ser	Ala 240
Leu	Met	Gly	Gly	Cys 245	Ala	Gln	Val	Val	Ser 250	Val	Asp	Thr	Ser	Gln 255	Glu
Ala	Leu	Asp	Val 260	Ala	Lys	Gln	Asn	Val 265	Glu	Leu	Asn	Lys	Leu 270	Asp	Leu
Ser	Lys	Ala 275	Glu	Phe	Val	Arg	Asp 280	Asp	Val	Phe	Lys	Leu 285	Leu	Arg	Lys
Tyr	Arg 290	Asp	Gln	Gly	Glu	Lys 295	Phe	Asp	Val	Ile	Val 300	Met	Asp	Pro	Pro
Lys 305	Phe	Val	Glu	Asn 310	Lys	Ser	Gln	Leu	Met	Gly 315	Ala	Cys	Arg	Gly 320	Tyr
Lys	Asp	Ile	Asn 325	Met	Leu	Ala	Ile	Gln	Leu 330	Leu	Asn	Pro	Gly 335	Gly	Val
Leu	Leu	Thr	Phe 340	Ser	Cys	Ser	Gly	Leu 345	Met	Thr	Thr	Asp	Leu 350	Phe	Gln
Lys	Ile	Ile	Ala	Asp	Ala	Ala	Ile	Asp	Ala	Gly	Arg	Asp	Val	Gln	Phe

	355		360		365										
Ile	Glu	Gln	Phe	Arg	Gln	Ala	Ala	Asp	His	Pro	Val	Ile	Ala	Thr	Tyr
	370				375						380				
Pro	Glu	Gly	Leu	Tyr	Leu	Lys	Gly	Phe	Ala	Cys	Arg	Val	Met		
385					390					395					

<210> 6831
 <211> 116
 <212> PRT
 <213> Enterobacter cloacae

<400> 6831
 Cys Val Cys Asn Val Ser Arg Glu Val Thr Met Ile Ala Ser Lys Phe
 1 5 10 15
 Gly Ile Gly Gln Gln Val Arg His Thr Leu Leu Gly Tyr Leu Gly Val
 20 25 30
 Val Val Asp Ile Asp Pro Glu Tyr Ser Leu Asp Glu Pro Ser Ala Asp
 35 40 45
 Asp Leu Ala Val Asp Ala Glu Leu Arg Ala Ala Pro Trp Tyr His Val
 50 55 60
 Val Met Glu Gly Asp Asp Gly Gln Pro Val His Thr Tyr Leu Ala Glu
 65 70 75 80
 Ala Gln Leu Ser Gly Glu Leu Gln Asp Glu His Pro Glu Gln Pro Thr
 85 90 95
 Met Asp Glu Leu Ala Gln Thr Ile Arg Lys Gln Leu Gln Ala Pro Arg
 100 105 110
 Leu Arg Asn
 115

<210> 6832
 <211> 151
 <212> PRT
 <213> Enterobacter cloacae

<400> 6832
 Gly Phe Met Arg Thr Val Leu Asn Val Leu Asn Phe Val Leu Gly Gly
 1 5 10 15
 Phe Ala Thr Thr Leu Ser Trp Leu Phe Ala Thr Leu Val Ser Ile Val
 20 25 30
 Leu Ile Phe Thr Leu Pro Leu Thr Arg Ser Cys Trp Glu Ile Thr Lys
 35 40 45
 Leu Ser Leu Val Pro Tyr Gly Asn Glu Ala Val His Val Asp Glu Leu
 50 55 60
 Glu Pro Glu Arg Lys Asn Ala Leu Met Asn Thr Gly Gly Thr Leu Leu
 65 70 75 80
 Asn Ile Leu Trp Leu Ile Phe Phe Gly Trp Trp Leu Cys Leu Met His
 85 90 95
 Ile Phe Ala Gly Ile Ala Gln Cys Ile Thr Ile Ile Gly Ile Pro Val
 100 105 110
 Gly Ile Ala Asn Phe Lys Ile Ala Thr Ile Ala Leu Trp Pro Val Gly
 115 120 125
 Arg Arg Val Val Pro Val Glu Val Ala Gln Ala Ala Arg Glu Ala Asn
 130 135 140
 Ala Arg Arg Arg Phe Gln
 145 150

<210> 6833
 <211> 726
 <212> PRT
 <213> Enterobacter cloacae

<400> 6833

Gly	Leu	Ala	Ala	Leu	Met	Leu	Ser	Pro	Leu	Leu	Arg	Arg	Tyr	Thr	Trp
1				5					10					15	
Asn	Ser	Asn	Trp	Leu	Tyr	Asn	Val	Arg	Ile	Phe	Ile	Ala	Leu	Cys	Gly
			20					25					30		
Thr	Val	Ala	Leu	Pro	Trp	Trp	Leu	Asn	Asp	Val	Lys	Leu	Thr	Ile	Pro
		35					40					45			
Leu	Thr	Leu	Gly	Val	Val	Ala	Gly	Ala	Leu	Ala	Asp	Leu	Asp	Asp	Arg
		50				55					60				
Leu	Ala	Gly	Arg	Leu	Arg	Asn	Leu	Val	Ile	Thr	Leu	Val	Cys	Phe	Phe
65					70					75					80
Ile	Ala	Ser	Ala	Ser	Val	Glu	Leu	Leu	Phe	Pro	Trp	Pro	Trp	Leu	Phe
				85					90					95	
Ala	Leu	Gly	Leu	Thr	Val	Ser	Thr	Ser	Gly	Phe	Ile	Leu	Leu	Gly	Gly
			100					105					110		
Leu	Gly	Gln	Arg	Tyr	Ala	Thr	Ile	Ala	Phe	Gly	Ala	Leu	Leu	Ile	Ala
		115					120					125			
Ile	Tyr	Thr	Met	Leu	Gly	Val	Ser	Leu	Tyr	Glu	Gln	Trp	Tyr	Gln	Gln
	130					135					140				
Pro	Val	Leu	Leu	Met	Leu	Gly	Ala	Ile	Trp	Tyr	Asn	Leu	Leu	Thr	Leu
145					150					155					160
Thr	Gly	His	Leu	Ile	Phe	Pro	Val	Arg	Ala	Leu	Gln	Asp	Asn	Ile	Ala
				165					170					175	
Arg	Ser	Tyr	Glu	Gln	Leu	Ala	His	Tyr	Leu	Glu	Leu	Lys	Ser	Arg	Leu
			180					185					190		
Phe	Asp	Pro	Asp	Ile	Glu	Glu	Asp	Ser	Gln	Ala	Pro	Leu	Tyr	Asp	Leu
		195					200					205			
Ala	Leu	Ala	Asn	Gly	Gln	Leu	Val	Ala	Thr	Leu	Asn	Gln	Thr	Lys	Ala
		210				215					220				
Ser	Leu	Leu	Thr	Arg	Leu	Arg	Gly	Asp	Arg	Gly	Gln	Arg	Gly	Thr	Arg
225					230					235					240
Arg	Thr	Leu	His	Tyr	Tyr	Phe	Val	Ala	Gln	Asp	Ile	His	Glu	Arg	Ala
				245					250					255	
Ser	Ser	Ser	His	Val	Gln	Tyr	Ala	Asp	Leu	Arg	Glu	Lys	Phe	Arg	Tyr
			260					265					270		
Ser	Asp	Val	Met	Phe	Arg	Phe	Gln	Arg	Leu	Leu	Ser	Met	Gln	Ser	Gln
		275					280					285			
Ala	Cys	Gln	Gln	Leu	Ala	Arg	Ser	Ile	Leu	Leu	Arg	Thr	Pro	Tyr	Gln
		290				295					300				
His	Asp	Pro	Cys	Phe	Glu	Arg	Ala	Phe	Ser	His	Leu	Asp	Ala	Ala	Leu
305					310					315					320
Asp	Arg	Val	Gln	Ala	Ser	Gly	Thr	Ser	Pro	Glu	Gln	Phe	Lys	Ala	Leu
			325						330					335	
Gly	Phe	Leu	Leu	Asn	Asn	Leu	Arg	Ala	Ile	Asp	Ala	Gln	Leu	Ala	Thr
			340					345					350		
Ile	Glu	Ser	Glu	Gln	Ala	Met	Ala	Met	Pro	Gly	Asn	Asp	Ala	Asp	Asn
		355				360						365			
Gln	Leu	Ala	Asp	Asp	Ser	Leu	Asn	Gly	Phe	Ser	Asp	Met	Trp	Leu	Arg
		370				375					380				
Leu	Ser	Arg	His	Phe	Thr	Pro	Glu	Ser	Ala	Leu	Phe	Arg	His	Ala	Val
385					390					395					400
Arg	Met	Ser	Leu	Val	Leu	Cys	Val	Gly	Tyr	Ala	Phe	Ile	Gln	Ile	Thr
				405					410					415	
Gly	Leu	His	His	Gly	Tyr	Trp	Ile	Leu	Leu	Thr	Ser	Leu	Phe	Val	Cys
			420					425					430		
Gln	Pro	Asn	Tyr	Asn	Ala	Thr	Arg	His	Arg	Leu	Ala	Leu	Arg	Ile	Val
		435				440						445			
Gly	Thr	Leu	Val	Gly	Val	Ala	Ile	Gly	Leu	Pro	Val	Leu	Tyr	Phe	Val
		450				455					460				
Pro	Ser	Val	Glu	Gly	Gln	Leu	Leu	Leu	Ile	Val	Ile	Thr	Gly	Val	Leu
465					470					475					480

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Phe	Phe	Ala	Phe	Arg	Asn	Val	Gln	Tyr	Ala	His	Ala	Thr	Met	Phe	Ile
				485					490					495	
Thr	Leu	Leu	Val	Leu	Leu	Cys	Phe	Asn	Leu	Leu	Gly	Glu	Gly	Phe	Glu
			500					505					510		
Val	Ala	Leu	Pro	Arg	Val	Ile	Asp	Thr	Leu	Ile	Gly	Cys	Ala	Ile	Ala
		515					520					525			
Trp	Ala	Ala	Val	Ser	Phe	Ile	Trp	Pro	Asp	Trp	Arg	Phe	Arg	Asn	Leu
		530				535					540				
Pro	Arg	Val	Ser	Asp	Arg	Ala	Met	Asn	Ala	Asn	Cys	Arg	Tyr	Leu	Asp
545				550						555					560
Ala	Ile	Leu	Glu	Gln	Tyr	His	Gln	Gly	Arg	Asp	Asn	Arg	Leu	Ala	Tyr
			565						570						575
Arg	Ile	Ala	Arg	Asp	Ala	His	Asn	Thr	Asp	Ala	Glu	Leu	Ala	Ala	Ser
			580				585					590			
Val	Val	Ser	Asn	Met	Ser	Thr	Glu	Pro	Arg	Ala	Thr	Ala	Glu	Ile	Arg
		595					600					605			
Glu	Thr	Ala	Phe	Arg	Leu	Leu	Cys	Leu	Asn	His	Thr	Phe	Thr	Ser	Tyr
		610				615					620				
Ile	Ser	Thr	Leu	Gly	Ala	His	Arg	Glu	Lys	Leu	Thr	Asn	Pro	Asp	Ile
625					630					635					640
Leu	Ala	Leu	Leu	Asp	Ala	Val	Cys	Tyr	Val	Asp	Asp	Ala	Leu	His	
			645					650						655	
His	Gln	Pro	Ala	Asp	Glu	Pro	Arg	Val	His	Gln	Ala	Leu	Asp	Glu	Leu
			660					665					670		
Val	Gln	Arg	Ile	Ala	His	Leu	Asp	Pro	Gly	Thr	Asp	Asn	Lys	Ala	Pro
		675					680					685			
Leu	Val	Leu	Gln	Gln	Ile	Gly	Leu	Leu	Ile	Ala	Leu	Leu	Pro	Glu	Ile
		690				695					700				
Cys	Arg	Leu	Arg	Gln	Gln	Ile	Ala	Thr	Trp	Arg	Asn	Asp	Gly	Pro	Ala
705				710						715					720
Thr	Gln	Ala	Ala	His											
				725											

<210> 6834

<211> 161

<212> PRT

<213> Enterobacter cloacae

<400> 6834

Arg	Gly	Asn	Leu	Thr	Asp	Lys	Ile	Met	Glu	Leu	Thr	Thr	Arg	Thr	Leu
1				5					10					15	
Pro	Ala	Arg	Lys	His	Ile	Ala	Leu	Val	Ala	His	Asp	His	Cys	Lys	Gln
			20					25					30		
Met	Leu	Leu	Asn	Trp	Val	Arg	Arg	His	Gln	Pro	Leu	Leu	Gln	His	His
		35					40					45			
Ala	Leu	Ser	Ala	Thr	Gly	Thr	Thr	Gly	Asn	Leu	Ile	His	Arg	Glu	Thr
		50				55					60				
Gly	Leu	Glu	Val	Asn	Ala	Met	Leu	Ser	Gly	Pro	Met	Gly	Gly	Asp	Gln
65				70						75					80
Gln	Val	Gly	Ala	Gln	Ile	Ser	Glu	Gly	Lys	Ile	Asp	Val	Leu	Ile	Phe
			85						90					95	
Phe	Trp	Asp	Pro	Leu	Asn	Ala	Val	Pro	His	Asp	Pro	Asp	Val	Lys	Ala
			100					105					110		
Leu	Leu	Arg	Leu	Ala	Thr	Val	Trp	Asn	Ile	Pro	Val	Ala	Thr	Asn	Leu
		115					120					125			
Ser	Thr	Ala	Asp	Phe	Ile	Ile	Glu	Ser	Pro	Gln	Phe	Asn	Asp	Pro	Val
		130				135					140				
Glu	Ile	Leu	Ile	Pro	Asp	Tyr	Gln	Arg	Tyr	Leu	Ala	Glu	Arg	Leu	Lys
145					150					155					160

<210> 6835
 <211> 224
 <212> PRT
 <213> Enterobacter cloacae

<400> 6835

Gly	Asn	Lys	Met	Lys	Lys	Arg	Val	Leu	Val	Ile	Ala	Ala	Leu	Val	Ser
1				5					10					15	
Gly	Ala	Leu	Ala	Val	Ser	Gly	Cys	Thr	Thr	Asn	Pro	Tyr	Thr	Gly	Glu
			20					25					30		
Arg	Glu	Ala	Gly	Lys	Ser	Gly	Ile	Gly	Ala	Gly	Ile	Gly	Ser	Leu	Val
		35					40					45			
Gly	Ala	Gly	Val	Gly	Val	Leu	Ser	Ser	Ser	Lys	Lys	Asp	Arg	Gly	Lys
		50				55					60				
Gly	Ala	Leu	Ile	Gly	Ala	Ala	Ala	Gly	Ala	Ala	Leu	Gly	Gly	Gly	Val
65				70					75						80
Gly	Tyr	Tyr	Met	Asp	Val	Gln	Glu	Ala	Lys	Leu	Arg	Asp	Lys	Met	Lys
			85						90					95	
Gly	Thr	Gly	Val	Ser	Val	Thr	Arg	Ser	Gly	Asp	Asn	Ile	Ile	Leu	Asn
			100					105					110		
Met	Pro	Asn	Asn	Val	Thr	Phe	Asp	Ser	Ser	Ser	Ala	Thr	Leu	Lys	Pro
		115					120					125			
Ala	Gly	Ala	Asn	Thr	Leu	Thr	Gly	Val	Ala	Ala	Val	Leu	Lys	Glu	Tyr
		130				135					140				
Asn	Lys	Thr	Ala	Val	Asn	Val	Ile	Gly	Tyr	Thr	Asp	Ser	Thr	Gly	Ser
145					150					155					160
Gln	Asp	Leu	Asn	Met	Arg	Leu	Ser	Gln	Gln	Arg	Ala	Asp	Ser	Val	Ala
			165					170						175	
Ser	Ser	Leu	Ile	Thr	Gln	Gly	Val	Glu	Ala	Asn	Arg	Ile	Arg	Thr	Ser
		180						185					190		
Gly	Met	Gly	Pro	Ala	Asn	Pro	Ile	Ala	Ser	Asn	Ser	Thr	Ala	Glu	Gly
		195					200					205			
Lys	Ala	Gln	Asn	Arg	Arg	Val	Glu	Ile	Thr	Leu	Ser	Pro	Val	Gln	
		210				215					220				

<210> 6836
 <211> 195
 <212> PRT
 <213> Enterobacter cloacae

<400> 6836

Pro	Met	Gln	Arg	Cys	Gly	Trp	Val	Ser	Gln	Asp	Gln	Leu	Tyr	Ile	Asp
1				5					10					15	
Tyr	His	Asp	Lys	Glu	Trp	Gly	Val	Pro	Glu	Thr	Asp	Gly	Lys	Lys	Leu
			20					25					30		
Phe	Glu	Met	Ile	Cys	Leu	Glu	Gly	Gln	Gln	Ala	Gly	Leu	Ser	Trp	Ile
		35					40					45			
Thr	Val	Leu	Lys	Lys	Arg	Glu	Asn	Tyr	Arg	Lys	Ala	Phe	His	Gln	Phe
		50				55					60				
Asp	Pro	Ala	Ala	Val	Ala	Ala	Met	Thr	Asp	Asp	Asp	Val	Gln	Lys	Leu
65				70					75						80
Val	Leu	Asp	Thr	Gly	Ile	Ile	Arg	His	Arg	Gly	Lys	Ile	Gln	Ala	Ile
				85				90					95		
Ile	Gly	Asn	Ala	Arg	Ala	Tyr	Leu	Ala	Met	Glu	Gln	Asn	Gly	Glu	Pro
		100						105					110		
Phe	Ser	Ala	Phe	Val	Trp	Ser	Phe	Val	Asp	Asn	Glu	Pro	Lys	Val	Thr
		115					120					125			
Gln	Ala	Ala	Thr	Leu	Ala	Glu	Ile	Pro	Thr	Ser	Thr	Pro	Ala	Ser	Asp
		130				135					140				
Ala	Leu	Ser	Lys	Ala	Leu	Lys	Lys	Arg	Gly	Phe	Lys	Phe	Val	Gly	Thr

145 150 155 160
 Thr Ile Cys Tyr Ser Phe Met Gln Ala Cys Gly Leu Val Asn Asp His
 165 170 175
 Ile Thr Gly Cys Phe Cys His Pro Glu Gly His His Asp Pro Gln Met
 180 185 190
 Ala Lys
 195

<210> 6837

<211> 390

<212> PRT

<213> Enterobacter cloacae

<400> 6837

Lys Gln Asn Gly Asn Pro Val Ala Val Leu Val Phe Ala Pro Ser Pro
 1 5 10 15
 Val Gly Glu Gly Trp Gly Glu Gly Ile Arg Pro Pro Pro Gly Lys Leu
 20 25 30
 Leu Asp Ser Pro Asp Phe Pro Ala Lys Val Phe Ser Leu Asn Ser Gly
 35 40 45
 Lys Ser Ala Met Ile Lys Pro Thr Arg Ala Thr Ile Ser Asp Val Ala
 50 55 60
 Lys Ala Ala Lys Thr Gly Lys Thr Ser Ile Ser Arg Tyr Leu Asn Gly
 65 70 75 80
 Glu Lys His Leu Leu Ser Asp Ala Leu Leu Ala Arg Ile Glu Gln Ala
 85 90 95
 Ile Ala Asp Leu Asp Tyr Arg Pro Ser Leu Met Ala Arg Gly Leu Lys
 100 105 110
 Arg Gly Arg Thr Arg Leu Ile Gly Leu Ile Ile Ala Asp Ile Thr Asn
 115 120 125
 Pro Tyr Ser Val Asn Val Leu Ser Gly Ile Glu Ala Ala Cys Arg Glu
 130 135 140
 Lys Gly Phe Thr Pro Leu Val Cys Asn Thr Asn Asn Glu Val Asp Gln
 145 150 155 160
 Glu Leu His Tyr Leu Asp Leu Leu Arg Ser Tyr Gln Val Glu Gly Ile
 165 170 175
 Val Val Asn Ala Val Gly Met Arg Glu Glu Gly Leu Asn Arg Leu Gln
 180 185 190
 Gln Ser Ser Leu Pro Met Val Leu Ile Asp Arg Lys Ile Pro Glu Phe
 195 200 205
 Ala Cys Asp Val Val Gly Leu Asp Asn Thr Gln Ala Ala Thr Thr Ala
 210 215 220
 Thr Glu His Leu Ile Glu Gln Gly Phe Glu Ala Ile Leu Phe Leu Ser
 225 230 235 240
 Glu Pro Leu Gly Met Val Asn Thr Arg Arg Asp Arg Leu Ala Ala Phe
 245 250 255
 Arg Ala Thr Leu Ala Arg Tyr Pro Gly Val Ile Ala Glu Asn Ala Glu
 260 265 270
 Ile Pro Leu His Glu Ala Gly Gln Leu Asp Asn Thr Leu Arg Gln Phe
 275 280 285
 His Thr Arg His Arg Gly Met Arg Lys Ala Val Ile Ser Ala Asn Gly
 290 295 300
 Ala Leu Thr Leu Gln Val Ala Arg Ser Leu Lys Arg Ile Gly Leu His
 305 310 315 320
 Trp Gly Ser Asp Ile Gly Leu Leu Gly Phe Asp Glu Leu Glu Trp Ala
 325 330 335
 Glu Leu Ala Gly Val Gly Ile Thr Thr Leu Lys Gln Pro Thr Trp Gln
 340 345 350
 Ile Gly Tyr Ala Ala Val Glu Gln Val Val Arg Arg Ile Glu Gly Thr
 355 360 365
 Arg Asp Ala Val Arg Glu Gln Val Phe Ser Gly Glu Leu Ile Val Arg

370
Gly Ser Thr Ala Arg
385

375
390

380

<210> 6838
<211> 314
<212> PRT
<213> Enterobacter cloacae

<400> 6838
Thr Met His Lys Thr Leu Asp Val Ile Thr Ile Gly Glu Ala Met Ala
1 5 10 15
Met Phe Val Ala Thr Glu Thr Gly Glu Leu Ser Ala Val Glu His Phe
20 25 30
Ile Lys Arg Val Ala Gly Ala Glu Leu Asn Val Ala Thr Gly Leu Ala
35 40 45
Arg Leu Gly Leu Asn Val Gly Trp Val Ser Arg Val Gly Asn Asp Ser
50 55 60
Phe Gly His Phe Val Leu Asp Ser Leu Lys Lys Glu Gly Ile Asp Ala
65 70 75 80
Ala Gly Val Thr Leu Asp Gly Arg Phe Pro Thr Gly Phe Gln Leu Lys
85 90 95
Ser Lys Val Glu Asn Gly Thr Asp Pro Ile Val Glu Tyr Phe Arg Lys
100 105 110
Gly Ser Ala Ala Ser His Leu Ser Val Asp Asp Tyr His Ala Ala Tyr
115 120 125
Phe Ser Ser Ala Arg His Leu His Leu Ser Gly Val Ala Ala Ala Leu
130 135 140
Ser Ala Ser Ser Tyr Asp Leu Leu Asp His Ala Ala Ser Ala Met Lys
145 150 155 160
Ala Gln Gly Lys Thr Ile Ser Phe Asp Pro Asn Leu Arg Pro Val Leu
165 170 175
Trp Lys Ser Glu Ala Glu Met Ala Glu Lys Leu Asn Arg Leu Ala Phe
180 185 190
Gln Ala Asp Trp Val Leu Pro Gly Ile Lys Glu Gly Met Ile Leu Thr
195 200 205
Gly Glu Ser Thr Pro Glu Gly Ile Ala Asp Phe Tyr Leu Asn Arg Gly
210 215 220
Val Lys Ala Val Val Leu Lys Thr Gly Ala Asp Gly Ala Trp Phe Lys
225 230 235 240
Thr Ala Asp Gly Glu Gln Gly Ala Val Ala Ala Val Lys Val Asp Asn
245 250 255
Val Ile Asp Thr Val Gly Ala Gly Asp Gly Phe Ala Val Gly Val Ile
260 265 270
Ser Ala Leu Leu Glu Gly Lys Pro Leu Ser Gln Ala Val Ala Arg Gly
275 280 285
Asn Lys Ile Gly Ser Leu Ala Ile Gln Val Gln Gly Asp Ser Glu Gly
290 295 300
Leu Pro Thr Arg Ala Glu Leu Gly Val
305 310

<210> 6839
<211> 446
<212> PRT
<213> Enterobacter cloacae

<400> 6839
Ala Thr Val Tyr Pro Thr Asp Asn Gly Gly Asn Asn Leu Asn Asn Arg
1 5 10 15
Gly Lys Pro Met Asn Ser Ser Thr Asn Ala Val Lys Arg Trp Trp Tyr
20 25 30

Ile Met Pro Ile Val Phe Ile Thr Tyr Ser Leu Ala Tyr Leu Asp Arg
 35 40 45
 Ala Asn Phe Ser Phe Ala Ser Ala Ala Gly Ile Asn Glu Asp Leu Gly
 50 55 60
 Ile Thr Lys Gly Val Ser Ser Leu Leu Gly Ala Leu Phe Phe Leu Gly
 65 70 75 80
 Tyr Phe Phe Phe Gln Ile Pro Gly Ala Ile Tyr Ala Glu Arg Arg Ser
 85 90 95
 Val Arg Lys Leu Ile Phe Ile Cys Leu Ile Leu Trp Gly Ala Cys Ala
 100 105 110
 Ser Leu Thr Gly Val Val Asn Asn Ile Pro Ala Leu Ala Ala Ile Arg
 115 120 125
 Phe Ile Leu Gly Val Val Glu Ala Ala Val Met Pro Ala Met Leu Ile
 130 135 140
 Tyr Ile Ser Asn Trp Phe Thr Lys Ser Glu Arg Ser Arg Ala Asn Thr
 145 150 155 160
 Phe Leu Ile Leu Gly Asn Pro Val Thr Val Leu Trp Met Ser Val Val
 165 170 175
 Ser Gly Tyr Leu Ile Gln Ser Phe Gly Trp Arg Glu Met Phe Ile Ile
 180 185 190
 Glu Gly Val Pro Ala Ile Ile Trp Ala Phe Cys Trp Trp Val Leu Val
 195 200 205
 Lys Asp Lys Pro Ala Gln Ala Lys Trp Leu Ser Glu Asp Glu Lys Ala
 210 215 220
 Ala Leu Gln Ala Gln Leu Asp Lys Glu Gln Gln Gly Leu Lys Ala Val
 225 230 235 240
 Arg Asn Tyr Gly Glu Ala Phe Arg Ser Arg Asn Val Ile Leu Leu Cys
 245 250 255
 Ala Gln Tyr Phe Thr Trp Ser Ile Gly Val Tyr Gly Phe Val Leu Trp
 260 265 270
 Leu Pro Ser Ile Ile Arg Ser Gly Gly Glu Asn Leu Gly Met Val Glu
 275 280 285
 Val Gly Trp Leu Ser Ser Val Pro Tyr Leu Ala Ala Thr Ile Ala Met
 290 295 300
 Ile Ile Val Ser Trp Ala Ser Asp Lys Leu Gln Asn Arg Lys Leu Phe
 305 310 315 320
 Val Trp Pro Leu Leu Leu Ile Ala Ala Phe Ala Phe Ile Gly Ser Trp
 325 330 335
 Ala Val Gly Ala Asn His Phe Trp Val Ser Tyr Thr Leu Leu Val Ile
 340 345 350
 Ala Gly Ala Ala Met Tyr Ala Pro Tyr Gly Pro Phe Phe Ala Ile Ile
 355 360 365
 Pro Glu Met Leu Pro Arg Asn Val Ala Gly Gly Ala Met Ala Leu Ile
 370 375 380
 Asn Ser Met Gly Ala Leu Gly Ser Phe Phe Gly Ser Trp Phe Val Gly
 385 390 395 400
 Tyr Leu Asn Gly Ala Thr Gly Ser Pro Ser Ala Ser Tyr Ile Phe Met
 405 410 415
 Gly Val Ala Leu Phe Ala Ser Val Trp Leu Thr Leu Ile Val Lys Pro
 420 425 430
 Ala Asn Asn Gln Gln Leu Pro Val Gly Ala Arg His Ala
 435 440 445

<210> 6840

<211> 334

<212> PRT

<213> Enterobacter cloacae

<400> 6840

Ile Leu Leu Lys Ser Thr Glu Ile Ser Met Lys Pro Ser Val Ile Leu
 1 5 10 15

Tyr Lys Ala Leu Pro Glu Asp Leu Gln Lys Arg Leu Glu Glu His Phe
 20 25 30
 Thr Val Thr Arg Val Lys Asn Leu Ser Pro Glu Thr Val Ala Gln His
 35 40 45
 Ala Asp Ala Phe Ala Ser Ala Glu Gly Leu Leu Gly Ser Ser Glu Lys
 50 55 60
 Val Asp Ala Ala Leu Leu Glu Lys Met Pro Lys Leu Arg Ala Thr Ser
 65 70 75 80
 Thr Val Ser Val Gly Tyr Asp Asn Phe Asp Val Asp Ala Leu Asn Ala
 85 90 95
 Pro Asn Ile Leu Leu Met His Thr Pro His Ala Leu Thr Glu Thr Val
 100 105 110
 Ala Asp Thr Leu Asn Ala Leu Val Leu Asn Thr Ala Arg Pro Val Met
 115 120 125
 Glu Ile Gly Glu Arg Val Lys Ala Gly Glu Trp Thr Lys Ser Ile Gly
 130 135 140
 Pro Asp Trp Phe Gly Val Asp Val His Gly Lys Thr Leu Gly Ile Val
 145 150 155 160
 Gly Met Gly Arg Ile Gly Leu Ala Leu Ala Gln Arg Ala His Phe Gly
 165 170 175
 Phe Asn Met Pro Ile Leu Tyr Asn Ala Arg Arg His His Ser Glu Ala
 180 185 190
 Glu Glu Arg Phe Asn Ala Leu Tyr Cys Glu Leu Asp Thr Leu Leu Arg
 195 200 205
 Glu Ala Asp Phe Val Cys Leu Ile Leu Pro Leu Thr Asp Glu Thr Arg
 210 215 220
 His Leu Ile Gly Lys Ala Ala Phe Glu Lys Met Lys Lys Ser Ala Ile
 225 230 235 240
 Phe Ile Asn Ala Gly Arg Gly Pro Val Val Asp Glu Lys Ala Leu Ile
 245 250 255
 Glu Ala Leu Gln Asn Gly Glu Ile His Ala Ala Gly Leu Asp Val Phe
 260 265 270
 Glu Gln Glu Pro Leu Pro Val Asp Ser Pro Leu Leu Thr Met Pro Asn
 275 280 285
 Val Val Ala Leu Pro His Ile Gly Ser Ala Thr His Glu Thr Arg Tyr
 290 295 300
 Asn Met Ala Ala Thr Ala Val Asp Asn Leu Ile Ala Ala Leu Gly Gly
 305 310 315 320
 Lys Val Asp Lys Asn Cys Val Asn Pro Gln Ile Gln Gln
 325 330

<210> 6841

<211> 169

<212> PRT

<213> Enterobacter cloacae

<400> 6841

Leu Phe His Leu Arg Glu Gln Gln His Val Ile Asn Val Leu Ser Ala
 1 5 10 15
 Val Thr Arg Leu Gly Ala Asn Leu Leu Ala Val Gly Asp Val Ile Arg
 20 25 30
 His Gly Val Gly Val Glu Pro His Leu Thr Leu His Gly Glu Gln Ile
 35 40 45
 Gly Ala Lys Ser Lys Leu Leu Gln Asn Ser Lys His Val Leu Leu Phe
 50 55 60
 Glu Ser Ala Leu Arg Ile Ile Thr Arg Thr Ala Leu Thr Asn Lys His
 65 70 75 80
 Thr Ala Gln Arg Glu Leu Arg Gly Gly Ile Ala Gly Val Ala Ala Val
 85 90 95
 Ser Tyr Lys Ile Leu Phe Leu Arg Gln Phe Arg Gly Gly Ile Ala Val
 100 105 110

Ile Thr Glu Asp Thr His Met Ile Pro Ala Arg Arg Phe Ala Asp Asn
 115 120 125
 Glu Asp His Val Ser Ile Ile Gln Pro Val Ser Arg Ser Leu Val Gly
 130 135 140
 Glu Leu Phe Gly Trp Val Asn Gln Arg Phe His Ile Ala Gly Phe Val
 145 150 155 160
 Arg Leu Ser Pro Gly Ile Lys Thr
 165

<210> 6842
 <211> 184
 <212> PRT
 <213> Enterobacter cloacae

<400> 6842
 Lys Asn Ala Ala Leu Ser Leu Trp Ala Pro Pro Ser Val Thr Pro Leu
 1 5 10 15
 Cys Arg Pro Ala Gly Trp Ser Met Thr Thr Leu Arg Ala Ala Ser Ala
 20 25 30
 Ile Arg Arg Ala Thr Met Ile Arg Lys Trp Gln Ser Glu Asn Thr Ala
 35 40 45
 Pro Leu Leu Ser Leu Trp Leu Glu Ser Thr Thr Glu Ala His Pro Phe
 50 55 60
 Ile Asp Ala Ser Tyr Trp Gln Ala Asn Glu Ala Val Val Arg Asp Glu
 65 70 75 80
 Tyr Leu Pro Ala Ala Glu Thr Trp Val Trp Glu Glu Asn Gly Thr Leu
 85 90 95
 Cys Gly Phe Ile Ser Val Met Gln Phe Gln Phe Val Gly Ala Leu Phe
 100 105 110
 Val Ala Pro Ala Phe Ile Gly Lys Gly Ile Gly Arg Ala Leu Leu Asn
 115 120 125
 His Val Gln Gln His Tyr Pro Tyr Leu Thr Leu Glu Val Tyr Gln Lys
 130 135 140
 Asn Val Arg Ala Val Asn Phe Tyr His Ala Gln Gly Phe Arg Ile Glu
 145 150 155 160
 Asp Ser Ala Trp Gln Asp Asp Thr Gln His Pro Thr Trp Ile Met Ser
 165 170 175
 Trp Gln Ala Asp Gln Thr Pro
 180

<210> 6843
 <211> 77
 <212> PRT
 <213> Enterobacter cloacae

<400> 6843
 Val Thr Gly Ser Ala Leu Ala Phe Ser Ala Phe Ile Arg Ala His Gly
 1 5 10 15
 Arg Ile Trp Arg Trp Lys Glu Gly Gly Ile Cys Lys Asn Gly Ala Leu
 20 25 30
 Asn Val Leu Thr Gln Asp Leu Pro Ser Ser Lys Leu Gly Asn Gly Cys
 35 40 45
 Ala Gly Asn Thr Ala Leu Ala Trp Val Glu Lys Tyr Glu Gly Pro Ala
 50 55 60
 Leu Thr Leu Thr Ala Phe Asp Pro Pro Ala Ser Ser
 65 70 75

<210> 6844
 <211> 125
 <212> PRT
 <213> Enterobacter cloacae

<400> 6844

His Ile Ser Pro Asn Ser Ala Leu Ser Gly Val Ala Leu Met Met Ile
 1 5 10 15
 Lys Lys Ile Ser Gly Arg His Ala Ala Ser Gly Leu Val Gly Val Ser
 20 25 30
 Val Cys Leu Leu Phe Cys His Thr Ala Phe Ala Trp Gln Gln Glu Tyr
 35 40 45
 Ile Val Ser Asp Ala Gln Ser Asn Thr Thr Glu Arg Tyr Thr Trp Asp
 50 55 60
 Ala Asp His Gln Pro Arg Tyr Glu Asp Ile Leu Ala Glu Arg Ile Asn
 65 70 75 80
 Arg Thr Gln Asn Ala Tyr Gly Val Tyr Pro Glu Arg Ser Leu Arg Phe
 85 90 95
 Gly Cys Gly Asn Arg Ser Glu Arg Trp Leu Glu Phe Ser Arg Gly Gly
 100 105 110
 Thr Phe His His Arg Ala Arg His Gly Val Ala His
 115 120 125

<210> 6845

<211> 108

<212> PRT

<213> Enterobacter cloacae

<400> 6845

Asp Pro Tyr Leu Ala Arg Leu Glu Lys Thr Lys Gln Gly Gln Asp Leu
 1 5 10 15
 Lys Pro Val Tyr Asp Gln Val Tyr Glu Lys Val Val Thr Lys Pro Ser
 20 25 30
 Asn Ala Leu Gln Pro Leu Ile Pro Ala Ala Gln Val Phe Thr Gln Gln
 35 40 45
 Leu Val Gln Val Gly Asp Phe Ile Ser Glu Gln Gly Thr Gln Val Ser
 50 55 60
 Phe Val Ser Asn Gly Ile Gln Phe Pro Thr Ser Gln Gln Ala Ser Gln
 65 70 75 80
 Tyr Asn Ala Leu Ile Gly Pro Leu Ala Ser Gln His Gln Ala Phe Ser
 85 90 95
 Gln Ala Trp Ser Ala Ala Val Ala Ala Thr Glu
 100 105

<210> 6846

<211> 98

<212> PRT

<213> Enterobacter cloacae

<400> 6846

Pro Phe Leu His Arg Leu Lys Ile Cys Asn Ala Ile His Gln Ala Gly
 1 5 10 15
 Arg His Asn Ile Phe Val Asn Lys Val Ile Ser Met Ser Ala Lys Met
 20 25 30
 Thr Gly Leu Val Lys Trp Phe Asn Ala Asp Lys Gly Phe Gly Phe Ile
 35 40 45
 Thr Pro Asp Asp Gly Ser Lys Asp Val Phe Val His Phe Ser Ala Ile
 50 55 60
 Gln Asn Asp Gly Tyr Lys Ser Leu Asp Glu Gly Gln Lys Val Ser Phe
 65 70 75 80
 Thr Ile Glu Ser Gly Ala Lys Gly Pro Ala Ala Gly Asn Val Val Ser
 85 90 95
 Leu

<210> 6847
 <211> 178
 <212> PRT
 <213> Enterobacter cloacae

<400> 6847

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Lys Lys Ser Val Val Ala Met Leu Leu Leu Ala Trp Trp Val Phe Gln
1      5      10      15
Ser Ala Cys Phe Phe Val Thr Pro Leu Leu Arg Gly Asn Arg Asn Ile
      20      25      30
Ser Phe Gln Met His Lys Val Ile Arg Arg Asn Val Ile His Gly Thr
      35      40      45
Pro Ile Thr Asn Leu Val Met Lys Ile Phe Ser Arg Ser Val Leu Thr
      50      55      60
Ala Pro Arg Met Pro Thr Gly Phe Thr Leu Asn Asp Pro Ser Gly Ser
65      70      75      80
Asp Ala Glu Thr Val Leu Ser Val Gly Trp Asn Phe Pro Val Ala Gly
      85      90      95
His Phe Thr Thr Gly Pro Val Met Ala Trp Arg Thr Asp Gly Ala Pro
      100     105     110
Pro Val Thr Val Asn Ala Phe Glu Asp Thr Thr Thr Thr Gln Ser Leu
      115     120     125
Thr Asp Pro Leu Trp His Ala Ser Val Asn Ser Leu Gly Trp Arg Val
      130     135     140
Asp Thr Gln Tyr Gly Asp Leu His Pro Trp Ala Lys Ile Ser Tyr Asn
145     150     155     160
Gln Gln Thr Glu Glu Glu Tyr Leu Tyr Thr Leu Gly Leu Ser Ala Lys
      165     170     175
Phe

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<210> 6848
 <211> 429
 <212> PRT
 <213> Enterobacter cloacae

<400> 6848

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Asp Ser Ala Gly Leu Tyr Thr Pro Ser Pro Arg Val Val Cys Met Lys
1      5      10      15
Tyr Ile Arg Ser Leu Thr Gln Gln Arg Leu Cys Leu Met Leu Ala Val
      20      25      30
Tyr Ile Gly Leu Phe Leu Asn Gly Ala Val Leu Phe Arg Arg Val Glu
      35      40      45
Gly Tyr Phe Glu His Leu Thr Val Arg Asn Gly Ile Phe Ala Ala Ile
      50      55      60
Glu Val Phe Gly Ser Ile Leu Ala Thr Phe Phe Leu Leu Arg Leu Leu
65      70      75      80
Ser Leu Phe Gly Arg Arg Thr Trp Gln Val Leu Ala Ser Leu Val Val
      85      90      95
Ile Ile Ser Ala Ala Ala Ser Tyr Tyr Met Thr Phe Met Asn Val Val
      100     105     110
Ile Gly Tyr Gly Ile Val Ala Ser Val Met Thr Thr Asp Ile Asp Leu
      115     120     125
Ser Lys Glu Val Val Gly Gln Gly Phe Ile Leu Trp Thr Ile Leu Thr
      130     135     140
Cys Leu Ile Pro Leu Phe Ile Trp Ser Asn Thr Cys Arg Tyr Thr
145     150     155     160
Leu Leu Arg Gln Leu Arg Thr Arg Gly Gln Arg Ile Arg Asn Val Ala
      165     170     175
Val Val Leu Leu Ala Gly Leu Leu Val Trp Ala Pro Ile Arg Leu Met
      180     185     190

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Glu	Lys	Gln	Gln	Lys	Arg	Ile	Glu	Lys	Ala	Thr	Gly	Val	Asp	Met	Pro
		195					200					205			
Ser	Tyr	Gly	Gly	Val	Val	Ala	Asn	Ser	Tyr	Leu	Pro	Ser	Asn	Trp	Leu
		210					215				220				
Ser	Ala	Leu	Gly	Leu	Tyr	Ala	Trp	Ala	Gln	Ala	Asp	Glu	Ser	Ser	Asp
225					230					235					240
Val	Lys	Ser	Leu	Ile	Asn	Pro	Thr	Lys	Lys	Phe	Thr	Tyr	Gln	Ala	Pro
				245						250					255
Ala	Asp	Gly	Leu	Asp	Asp	Thr	Tyr	Val	Val	Phe	Val	Ile	Gly	Glu	Thr
			260					265					270		
Thr	Arg	Trp	Asp	His	Met	Gly	Ile	Leu	Gly	Tyr	Asp	Arg	Asp	Thr	Thr
		275					280					285			
Pro	Lys	Leu	Ala	Gln	Glu	Lys	Asn	Leu	Val	Ala	Tyr	Arg	Gly	Tyr	Ser
		290				295					300				
Cys	Asp	Thr	Ala	Thr	Lys	Leu	Ser	Leu	Arg	Cys	Met	Phe	Val	Arg	Glu
305					310					315					320
Gly	Gly	Ala	Ser	Asp	Asn	Pro	Gln	Arg	Thr	Leu	Lys	Glu	Gln	Asn	Val
				325					330						335
Phe	Ala	Val	Leu	Lys	Gln	Leu	Gly	Phe	Ser	Ser	Asp	Leu	Phe	Ala	Met
			340					345					350		
Gln	Ser	Glu	Met	Trp	Phe	Tyr	Thr	Asn	Thr	Met	Ala	Asp	Asn	Ile	Ala
		355					360					365			
Tyr	Arg	Glu	Gln	Ile	Gly	Ala	Glu	Pro	Arg	Asn	Arg	Gly	Lys	Asn	Val
		370				375					380				
Asp	Asp	Met	Leu	Leu	Leu	Ser	Glu	Met	Glu	Gln	Ser	Leu	Lys	Asn	His
385					390					395					400
Pro	Gln	Gly	Lys	His	Leu	Ile	Val	Leu	His	Thr	Lys	Gly	Ser	His	Tyr
				405					410					415	
Ser	Leu	His	Ala	Arg	Gly	Arg	Gly	Tyr	Arg	Ala	Met	Arg			
			420					425							

<210> 6849

<211> 744

<212> PRT

<213> Enterobacter cloacae

<400> 6849

Ile	Ala	Ser	Met	Lys	Gly	Arg	Asn	Thr	Cys	Thr	Gln	Pro	Gly	Ala	His
1				5					10					15	
Ala	Leu	Ser	Thr	Ser	Thr	Lys	Thr	Ile	Leu	Thr	Ala	Ala	His	Trp	Gly
			20					25					30		
Pro	Met	Leu	Val	Glu	Thr	Asp	Gly	Asp	Thr	Val	Leu	Ser	Ser	Arg	Gly
		35					40					45			
Ala	Leu	Pro	Ser	Arg	His	Leu	Asn	Ser	Leu	Gln	Thr	Val	Val	Arg	Asp
		50				55					60				
Gln	Val	His	Ser	Lys	Thr	Arg	Val	Arg	Trp	Pro	Met	Val	Arg	Lys	Gly
65					70				75						80
Phe	Leu	Ala	Ser	Pro	Asp	Lys	Pro	Gln	Gly	Ile	Arg	Gly	Gln	Asp	Glu
				85				90						95	
Phe	Val	Arg	Val	Ser	Trp	Asp	Asp	Ala	Leu	Ala	Leu	Ile	His	Thr	Gln
			100					105					110		
His	Lys	Arg	Ile	Arg	Asp	Ser	Tyr	Gly	Pro	Ser	Ser	Ile	Phe	Ala	Gly
		115					120					125			
Ser	Tyr	Gly	Trp	Arg	Ser	Asn	Gly	Val	Leu	His	Lys	Ala	Ala	Thr	Leu
		130				135					140				
Leu	Gln	Arg	Tyr	Met	Ser	Leu	Ala	Gly	Gly	Tyr	Thr	Gly	His	Leu	Gly
145					150					155					160
Asp	Tyr	Ser	Thr	Gly	Ala	Ala	Gln	Ala	Ile	Met	Pro	Tyr	Val	Val	Gly
				165					170						175
Gly	Asn	Glu	Val	Tyr	Gln	Gln	Gln	Thr	Ser	Trp	Pro	Leu	Val	Leu	Glu
			180					185					190		

His	Thr	Glu	Val	Val	Val	Leu	Trp	Ser	Ala	Asn	Pro	Leu	Asn	Thr	Leu
		195					200					205			
Lys	Ile	Ala	Trp	Asn	Ala	Ser	Asp	Glu	Gln	Gly	Val	Ser	Tyr	Phe	Asp
	210					215					220				
Ala	Leu	Arg	Lys	Ser	Gly	Lys	Arg	Ile	Ile	Cys	Ile	Asp	Pro	Met	Arg
225					230					235					240
Ser	Glu	Thr	Leu	Asp	Phe	Phe	Gly	Asn	Ser	Ala	Glu	Trp	Ile	Ala	Pro
				245					250					255	
His	Met	Gly	Thr	Asp	Val	Ala	Met	Met	Leu	Gly	Ile	Ala	His	Thr	Leu
			260					265					270		
Val	Glu	Asn	Gly	Trp	His	Asp	Thr	Glu	Phe	Leu	Ala	Arg	Cys	Thr	Thr
		275					280					285			
Gly	Phe	Asp	Lys	Phe	Ala	Asp	Tyr	Leu	Thr	Gly	Gln	Ser	Asp	Gly	Ile
	290					295					300				
Ala	Lys	Thr	Ala	Glu	Trp	Ala	Ala	Ala	Ile	Cys	Gly	Val	Asn	Ala	Val
305					310					315					320
Lys	Ile	Arg	Glu	Leu	Ala	Ala	Leu	Phe	His	Ser	His	Val	Thr	Met	Leu
				325					330					335	
Met	Thr	Gly	Trp	Gly	Met	Gln	Arg	Gln	Gln	Phe	Gly	Glu	Gln	Lys	His
			340					345					350		
Trp	Met	Leu	Leu	Thr	Leu	Ala	Ala	Met	Leu	Gly	Gln	Ile	Gly	Thr	Pro
		355					360					365			
Gly	Gly	Gly	Phe	Gly	Leu	Ser	Tyr	His	Phe	Ala	Asn	Gly	Gly	Asn	Pro
	370					375					380				
Thr	Arg	Lys	Ala	Ala	Val	Leu	Ala	Ser	Met	Gln	Gly	Ser	Val	Gln	Gly
385					390					395					400
Gly	Val	Asp	Ala	Val	Asp	Lys	Ile	Pro	Val	Ala	Arg	Ile	Val	Glu	Ala
				405					410					415	
Leu	Glu	Asn	Pro	Gly	Gly	Phe	Tyr	Gln	His	Asn	Gly	Gln	Asp	Arg	His
		420						425					430		
Phe	Pro	Asp	Ile	Lys	Phe	Ile	Trp	Trp	Ala	Gly	Gly	Ala	Asn	Phe	Thr
		435					440					445			
His	His	Gln	Asp	Thr	Asn	Arg	Leu	Ile	Arg	Ala	Trp	Gln	Lys	Pro	Glu
	450				455						460				
Leu	Val	Val	Ile	Ser	Glu	Cys	Phe	Trp	Thr	Ala	Ser	Ala	Lys	His	Ala
465					470					475					480
Asp	Ile	Val	Leu	Pro	Ala	Thr	Thr	Ser	Phe	Glu	Arg	Asn	Asp	Leu	Thr
				485					490					495	
Met	Thr	Gly	Asp	Tyr	Ser	Asn	Gln	His	Met	Val	Pro	Met	Lys	Arg	Val
			500					505					510		
Val	Ala	Pro	Arg	Asp	Glu	Ala	Arg	Asp	Asp	Phe	Asp	Val	Phe	Ala	Asp
		515					520					525			
Leu	Ser	Glu	Met	Trp	Glu	Ala	Gly	Gly	Arg	Glu	Arg	Phe	Thr	Glu	Gly
	530					535					540				
Lys	Thr	Asp	Leu	Gln	Trp	Leu	Glu	Thr	Phe	Tyr	Gln	Ile	Ala	Ser	Gln
545					550					555					560
Arg	Gly	Ala	Ala	Gln	Gly	Val	Ser	Leu	Pro	Pro	Phe	Ala	Glu	Phe	Trp
				565					570					575	
Glu	Ala	Asn	Gln	Leu	Phe	Glu	Met	Pro	Glu	Ser	Glu	Gln	Asn	Ala	Arg
			580					585					590		
Phe	Val	Arg	Phe	Ala	Asp	Phe	Arg	Arg	Asp	Pro	Glu	Asn	His	Pro	Leu
		595					600					605			
Lys	Thr	Glu	Ser	Gly	Lys	Ile	Val	Ile	Tyr	Ser	Glu	Arg	Ile	Ala	Ser
	610					615					620				
Phe	Gly	Tyr	Ala	Asp	Cys	Pro	Pro	His	Pro	Ala	Trp	Leu	Glu	Pro	Asp
625					630					635					640
Glu	Trp	His	Gly	Asn	Ala	Gln	Pro	Gly	Gln	Leu	Gln	Leu	Leu	Ser	Ala
				645					650					655	
His	Pro	Ala	His	Arg	Leu	His	Ser	Gln	Leu	Asn	Tyr	Ser	Ala	Leu	Arg
		660						665					670		
Glu	Gln	Tyr	Ala	Val	Ala	Gly	Arg	Glu	Pro	Ile	Ala	Leu	Asn	Ser	Asp

<400> 6850

Phe	Ile	Leu	Gln	Asp	Thr	Ala	Met	Asn	Thr	Ser	Thr	Tyr	Asn	Arg	Thr
1				5					10					15	
Arg	Trp	Leu	Thr	Leu	Phe	Gly	Thr	Ile	Val	Thr	Gln	Phe	Ala	Leu	Gly
			20					25					30		
Ser	Val	Tyr	Thr	Trp	Ser	Leu	Phe	Asn	Ser	Ala	Leu	Ser	Asp	Lys	Leu
		35					40					45			
Gly	Ala	Pro	Ile	Ser	Gln	Val	Ala	Phe	Ser	Phe	Gly	Leu	Leu	Ser	Leu
	50					55					60				
Gly	Leu	Ala	Ile	Ser	Ser	Ser	Val	Ala	Gly	Lys	Leu	Gln	Glu	Arg	Phe
65					70					75				80	
Gly	Val	Lys	Arg	Val	Thr	Met	Ala	Ser	Gly	Ile	Leu	Leu	Gly	Leu	Gly
				85					90					95	
Phe	Phe	Leu	Thr	Ala	Tyr	Ser	Asn	Asn	Leu	Met	Met	Leu	Trp	Leu	Ser
			100					105					110		
Ala	Gly	Val	Leu	Val	Gly	Leu	Ala	Asp	Gly	Ala	Gly	Tyr	Leu	Leu	Thr
			115				120					125			
Leu	Ser	Asn	Cys	Val	Lys	Trp	Phe	Pro	Glu	Arg	Lys	Gly	Leu	Ile	Ser
	130					135					140				
Ala	Phe	Ala	Ile	Gly	Ser	Tyr	Gly	Leu	Gly	Ser	Leu	Gly	Phe	Lys	Phe
145					150					155					160
Ile	Asp	Ala	His	Leu	Leu	Ala	Ser	Val	Gly	Leu	Glu	Lys	Thr	Phe	Met
				165					170					175	
Ile	Trp	Gly	Val	Ile	Val	Leu	Val	Met	Ile	Leu	Phe	Gly	Ala	Thr	Leu
			180					185					190		
Met	Lys	Asp	Ala	Pro	Gln	Gln	Glu	Val	Lys	Thr	Val	Asn	Gly	Val	Val
		195					200					205			
Glu	Asn	Asp	Phe	Thr	Leu	Ala	Gln	Ser	Met	Arg	Lys	Pro	Gln	Tyr	Trp
	210					215					220				
Met	Leu	Ala	Val	Met	Phe	Leu	Thr	Ala	Cys	Met	Ser	Gly	Leu	Tyr	Val
225				230						235					240
Ile	Gly	Val	Ala	Lys	Asp	Ile	Ala	Gln	Gly	Met	Val	Lys	Leu	Asp	Ala
				245					250					255	
Ala	Thr	Ala	Ala	Asn	Ala	Val	Thr	Val	Ile	Ser	Ile	Ala	Asn	Leu	Ser
			260					265					270		
Gly	Arg	Leu	Val	Leu	Gly	Ile	Leu	Ser	Asp	Lys	Ile	Ala	Arg	Ile	Arg
		275					280					285			
Val	Ile	Thr	Leu	Gly	Gln	Val	Ile	Ser	Leu	Val	Gly	Met	Ala	Ala	Leu
	290					295					300				
Leu	Phe	Ala	Pro	Leu	Asn	Glu	Ala	Thr	Phe	Phe	Ala	Ala	Ile	Ala	Cys
305					310					315					320
Val	Ala	Phe	Asn	Phe	Gly	Gly	Thr	Ile	Thr	Val	Phe	Pro	Ser	Leu	Val
			325						330					335	
Ser	Glu	Phe	Phe	Gly	Leu	Asn	Asn	Leu	Ala	Lys	Asn	Tyr	Gly	Val	Ile
			340					345					350		
Tyr	Leu	G													

355	360	365
Leu Phe Gly Gly Phe Tyr Val Thr Phe Cys Val Ile Phe Ala Leu Leu		
370	375	380
Ile Ile Ser Leu Ala Leu Ser Thr Thr Ile Arg Gln Pro Gln Arg Glu		
385	390	395
Val Tyr Lys Glu Ala His Ala		
405		400

<210> 6851

<211> 398

<212> PRT

<213> Enterobacter cloacae

<400> 6851

Lys Cys Ala Thr Met Leu Thr Thr Leu Ile Tyr Arg Ser His Leu Arg	
1 5 10 15	
Ala Asp Ala Pro Ile Gln Ser Ile Ile Asp Met Val Ser Glu Ala Asn	
20 25 30	
Ser Arg Asn Glu Arg Ala Gly Val Thr Gly Val Leu Leu Phe Asn Gly	
35 40 45	
Ile His Phe Leu Gln Leu Leu Glu Gly Asp Glu Ala Val Met Gln	
50 55 60	
Ile Tyr Glu Lys Ile Cys Leu Asp Thr Leu His Phe Asn Ile Val Glu	
65 70 75 80	
Leu Leu Ser Asp Tyr Ala Pro Tyr Arg Arg Phe Gly Arg Ser Gly Met	
85 90 95	
Glu Leu Ile Asp Ile Arg Leu Phe Ser Lys Glu Glu Cys Leu Asp Arg	
100 105 110	
Val Leu Gln Arg Gly Thr Thr Gln His Lys Met Leu Tyr Asn Asp Arg	
115 120 125	
Ala Leu Arg Phe Phe Arg Thr Phe Ile Asp Ser Ala Glu Thr Asp Asn	
130 135 140	
Tyr Tyr Glu Leu Pro Asp Arg Phe Ser Trp Phe Phe Ser Ser Asp Gln	
145 150 155 160	
Ile Asp Val Ser Ser Val Asp Pro Ala Ile Ile Glu Asp Met Tyr Ala	
165 170 175	
Val Ile Asp Pro Leu Ala Ala Gln Ile His Ser Phe Val Leu Asn Ala	
180 185 190	
Lys Ser Asp Asn Asp Val Ile Lys Val Asn Asn Leu Leu Phe Asp Leu	
195 200 205	
Glu Ser Lys Lys Asp Leu Leu Lys Ile Ala Gly Gly Phe Ile Thr Ser	
210 215 220	
Ser Gln Arg Val Ser Ile Thr Leu Leu Pro Leu Thr Leu Leu Arg Val	
225 230 235 240	
Pro Asn Ala Ile Glu Ile Leu Leu Asp Tyr Ile Arg Glu Ser Asn Leu	
245 250 255	
His Pro Glu Gln Val Leu Val Glu Phe Ser Glu Ser Glu Ile Ile Pro	
260 265 270	
Glu Ile Asp Glu Phe Ala His Ser Val Gln Ile Leu Lys Ser Cys Gly	
275 280 285	
Leu Ser Val Ala Ile Asn Asp Phe Gly Val Gly Asn Ala Gly Leu Leu	
290 295 300	
Phe Leu Ser Lys Phe Gln Pro Glu Lys Leu Lys Ile His Pro Gln Leu	
305 310 315 320	
Ile His Asn Ile His Lys Asp Gly Ser Lys Gln Ala Ile Leu Gln Ser	
325 330 335	
Leu Ile Arg Cys Gly Glu Leu Leu Glu Ile Arg Ile Cys Ala Thr Gly	
340 345 350	
Val Glu Gln Pro Glu Glu Trp Met Trp Leu Glu Ser Ala Gly Ile Phe	
355 360 365	
Cys Phe Gln Gly Asn Leu Phe Ser Lys Tyr Asp Lys Asn Gly Tyr Leu	

370 375 380
 Lys Ile Phe Trp Pro Glu Ser Asn Glu Phe Ile Gln Cys
 385 390 395

<210> 6852
 <211> 286
 <212> PRT
 <213> Enterobacter cloacae

<400> 6852
 Gly Arg Glu Val Arg Thr His His Tyr Arg Val Gly Glu Arg Met Asn
 1 5 10 15
 Leu Glu Asn Thr Leu Lys Tyr His Phe Ala Lys Ser Thr Met Ile Ser
 20 25 30
 Asp Ser Pro Arg Ala Thr Ala Ser Asp Ser Leu Ser Gly Thr Asp Ile
 35 40 45
 Met Ala Ala Met Gly Met Thr Gln Glu Arg Ala Ala Leu Gly Tyr Ser
 50 55 60
 Ala Phe Leu Gly Lys Met Gly Ile Ser Asn Asn Asp Arg Glu Arg Ala
 65 70 75 80
 Ile Glu Leu Leu Ala Gln Tyr Ala Leu Thr Lys Cys Asp Arg Val Ala
 85 90 95
 Ala Leu Arg Lys Leu Asp Ala Arg Val Lys Pro Leu Val Met His Gln
 100 105 110
 Leu Ala Ser Phe Ala Phe Glu Asp Tyr Ser Arg Ser Ala Ala Ser Val
 115 120 125
 Lys Gln Cys Asp Cys Cys Ser Gly Gln Gly Phe Ile Glu Ala Asp Val
 130 135 140
 Phe Thr Met Lys Ser His Tyr Thr Met Lys Leu Pro Gln Trp Ala Lys
 145 150 155 160
 Asp Leu Lys Gln Ser Pro Ser Tyr Phe Glu Val Lys Arg Gln Val Lys
 165 170 175
 Glu Val Ala Lys Val Leu Cys Ser Thr Cys Lys Gly Lys Lys Val Val
 180 185 190
 Ser Cys Ala Cys Lys Asp Cys His Gly Arg Gly Lys Ala Val Asn Gln
 195 200 205
 Asp Leu Thr Glu Lys Gln Gly Val Pro Val Leu Ala Asp Cys Lys Arg
 210 215 220
 Cys Gly Gly Arg Gly Tyr Glu Arg Ile Pro Ser Thr Glu Ala Tyr Ala
 225 230 235 240
 Ala Val Arg Gln Ile Thr Asp Thr Ile Ser Leu Asp Thr Trp Lys Lys
 245 250 255
 Ser Val Lys Pro Phe Tyr Asp Gln Leu Ile Thr Lys Phe Asp Ile Glu
 260 265 270
 Glu Ala Trp Ala Asp Ala Gln Leu Lys Gln Ile Thr Lys
 275 280 285

<210> 6853
 <211> 233
 <212> PRT
 <213> Enterobacter cloacae

<400> 6853
 Arg Gly Ala Gly Met Lys Asn Leu Ala Glu Ser Ile Arg Asn Phe Asp
 1 5 10 15
 Arg Glu Gln Ala Cys Arg Val Ala His Asn Leu Pro Glu Gln Tyr Thr
 20 25 30
 Glu Arg Glu Gln Thr Gln Gln Val Ala Gln Ile Ile Asn Gly Leu Phe
 35 40 45
 Val Gln Leu Ala Ala Ala Phe Pro Ala Ser Leu Val Asn Arg Ser Gln
 50 55 60

Asp Asp Val Asp Glu Ile Arg Arg Gln Trp Val Leu Ala Phe Lys Glu
 65 70 75 80
 Asn Gly Ile Asn Thr Met Glu Gln Val Glu Ala Gly Met Arg Met Val
 85 90 95
 Arg Arg Gln Glu Arg Pro Phe Leu Pro Ser Pro Gly Gln Phe Ile Lys
 100 105 110
 Trp Cys Arg Glu Gly Arg Cys Val Leu Gly Val Thr Thr Ala Asp Val
 115 120 125
 Met Ala Glu Tyr Trp Lys Trp Arg Lys Leu Val Phe Arg Tyr Pro Ser
 130 135 140
 Ser Glu Gln Tyr Pro Trp Pro Lys Pro Val Tyr Tyr His Ile Cys Leu
 145 150 155 160
 Glu Leu Arg Arg Arg Gly Thr Asp Gly Gln Leu Ser His Lys Glu Leu
 165 170 175
 Glu Arg Glu Ala Gly Asp Ile Leu Asp Arg Trp Glu Lys Arg Val Leu
 180 185 190
 Ala Gly Lys Pro Ile Pro Pro Ile Arg Arg Ala Leu Ala Ala Pro Val
 195 200 205
 Ala Pro Lys Gly Pro Thr Pro Ala Glu Leu Leu Lys Thr Lys Tyr Gln
 210 215 220
 Arg Met Lys Ala Asp Gly Arg Ala
 225 230

<210> 6854

<211> 104

<212> PRT

<213> Enterobacter cloacae

<400> 6854

Arg Ser Cys Glu Ala Ser Phe Tyr Phe Lys Arg Leu Lys Lys Val Glu
 1 5 10 15
 Ile Thr Met Lys Arg Pro Asn Trp Phe Gln Val Ser Asp Lys Gly Gly
 20 25 30
 Lys Ala Ile Ala Ala Leu His His Tyr Ala Thr Thr Gly Thr Gly Leu
 35 40 45
 Pro Ala Glu Leu Ile His Leu Ile Phe Leu Arg Val Ser Gln Ile Asn
 50 55 60
 Gly Cys Ala His Cys Ile Asp Ile His Thr Arg Asp Leu Ile Lys Ser
 65 70 75 80
 Gly Met Ser Val Glu Lys Ile Val Leu Cys Leu Phe Trp Arg Glu Pro
 85 90 95
 Ser Tyr Phe Ile Leu Arg Ile
 100

<210> 6855

<211> 162

<212> PRT

<213> Enterobacter cloacae

<400> 6855

Asp Gly Asp Ser Gly Asp Ser Gln Arg Ile Ser Leu Met Lys Glu Ile
 1 5 10 15
 Asp Val Gly Phe Thr His Val Ala Phe Val Val Arg Asp Leu Asp Lys
 20 25 30
 Ser Ile Asp Phe Tyr Gly Arg Tyr Ala Gly Met Glu Val Val His Arg
 35 40 45
 Arg Glu Pro Asp Leu Pro Glu Ala Arg Lys Val Ala Trp Leu Ser Asp
 50 55 60
 Leu Thr Arg Pro Phe Ala Leu Val Leu Val Gln Val Asp Ala Val Thr
 65 70 75 80
 Asp Thr Pro Leu Gly Asn Phe Gly His Leu Gly Val Ala Cys Ser Ser

				85					90				95				
Ile	Glu	Glu	Ile	Asp	Asn	Lys	Ile	Ala	Met	Ala	Arg	Met	Glu	Gly	Ile		
			100					105					110				
Leu	Arg	Lys	Glu	Pro	Val	Gln	Thr	Gly	Glu	Pro	Val	Gly	Tyr	Tyr	Val		
		115					120					125					
Phe	Phe	Ala	Asp	Pro	Asp	Gly	Asn	Thr	Leu	Glu	Leu	Ser	Tyr	Gly	Gln		
	130					135					140						
Lys	Val	Gly	Ile	Glu	Ala	Phe	Arg	His	Tyr	Asp	Thr	Val	Pro	Ala	Ser		
145					150					155					160		
Gln																	

<210> 6856.

<211> 158

<212> PRT

<213> Enterobacter cloacae

<400> 6856

Ala	Gln	Pro	Lys	Pro	Gly	Leu	Arg	Asp	Leu	Asp	Cys	Lys	Cys	Ile	Leu		
1				5					10					15			
Ala	Asp	Leu	Lys	Tyr	Thr	Ser	Ala	Pro	Gly	Gln	Pro	Leu	Ala	Lys	Pro		
			20					25					30				
Asp	Val	Gly	Val	Asn	Val	Lys	Thr	Tyr	Gln	Ile	Thr	Leu	Pro	Trp	Pro		
		35					40					45					
Pro	Ser	Asn	Asn	Arg	Tyr	Tyr	Arg	His	Asn	Arg	Gly	Arg	Thr	His	Ile		
		50				55					60						
Ser	Ala	Asp	Gly	Val	Ala	Tyr	Arg	Tyr	Ala	Val	Ala	Ser	Val	Ile	Arg		
65					70					75					80		
Ser	Ala	Arg	Leu	Asn	Ile	Arg	Thr	Ala	Ala	Pro	Leu	Lys	Ile	Arg	Ile		
				85					90					95			
Glu	Cys	His	Met	Pro	Asp	Arg	Arg	Arg	Arg	Asp	Leu	Asp	Asn	Leu	Gln		
			100					105					110				
Lys	Ala	Ala	Phe	Asp	Ala	Leu	Thr	Lys	Ala	Arg	Phe	Trp	Leu	Asp	Asp		
		115					120					125					
Cys	Gln	Val	Val	Asp	Tyr	Arg	Val	Val	Lys	Met	Pro	Val	Val	Lys	Gly		
		130				135					140						
Gly	Lys	Leu	Glu	Leu	Thr	Ile	Thr	Glu	Leu	Glu	Asn	Ala					
145					150					155							

<210> 6857

<211> 298

<212> PRT

<213> Enterobacter cloacae

<400> 6857

Arg	Gly	Ala	Ser	Gly	Gly	Ser	Trp	Ala	Lys	Val	Leu	Thr	Thr	Asp	Gln		
1				5					10					15			
Lys	Arg	Glu	Ala	Val	Met	Leu	Met	Cys	Asp	Ala	Thr	Gly	Leu	Ser	Gln		
			20					25					30				
Arg	Arg	Ala	Cys	Arg	Leu	Thr	Gly	Leu	Ser	Leu	Ser	Thr	Cys	Arg	Tyr		
		35					40					45					
Glu	Ala	His	Arg	Pro	Ala	Ala	Asp	Ala	His	Leu	Ser	Gly	Arg	Ile	Thr		
		50				55					60						
Glu	Leu	Ala	Leu	Glu	Arg	Arg	Arg	Phe	Gly	Tyr	Arg	Arg	Ile	Trp	Gln		
65					70					75					80		
Leu	Leu	Arg	Arg	Glu	Gly	Leu	His	Val	Asn	His	Lys	Arg	Val	Tyr	Arg		
				85					90					95			
Leu	Tyr	His	Leu	Ser	Gly	Leu	Gly	Val	Lys	Arg	Arg	Arg	Arg	Arg	Lys		
			100					105					110				
Gly	Leu	Ala	Thr	Glu	Arg	Leu	Pro	Leu	Leu	Arg	Pro	Ala	Ala	Pro	Asn		
		115					120					125					

Leu Thr Trp Ser Met Asp Phe Val Met Asp Ala Leu Ser Thr Gly Arg
 130 135 140
 Arg Ile Lys Cys Leu Thr Cys Val Asp Asp Phe Thr Lys Glu Cys Leu
 145 150 155 160
 Thr Val Thr Val Ala Phe Gly Ile Ser Gly Val Gln Val Thr Arg Ile
 165 170 175
 Leu Asp Ser Ile Ala Leu Phe Arg Gly Tyr Pro Ala Thr Ile Arg Thr
 180 185 190
 Asp Gln Gly Pro Glu Phe Thr Cys Arg Ala Leu Asp Gln Trp Ala Phe
 195 200 205
 Glu His Gly Val Glu Leu Arg Leu Ile Gln Pro Gly Lys Pro Thr Gln
 210 215 220
 Asn Gly Phe Ile Glu Ser Phe Asn Gly Arg Phe Arg Asp Glu Cys Leu
 225 230 235 240
 Asn Glu His Trp Phe Ser Asp Ile Val His Ala Arg Lys Ile Ile Asn
 245 250 255
 Asp Trp Arg Gln Asp Tyr Asn Glu Cys Arg Pro His Ser Thr Leu Asn
 260 265 270
 Tyr Gln Thr Pro Ser Glu Phe Ala Ala Gly Trp Arg Lys Gly His Ser
 275 280 285
 Glu Asn Glu Asp Ser Asp Val Thr Asn
 290 295

<210> 6858

<211> 153

<212> PRT

<213> Enterobacter cloacae

<400> 6858

Ala Lys Tyr Gly Ser Ala Phe Pro Gly Met Gly Arg His Pro Glu Gly
 1 5 10 15
 Gly Leu Ser Val Ala Ile Ser Asn Pro Arg Lys Pro Ala Glu Glu Leu
 20 25 30
 Gln Val Val Gly Val Asp Phe Ser Gly Gln Ala Asp Val Trp Asn Val
 35 40 45
 Lys Leu Phe Arg Trp Val Asp Asn Lys Glu Asp Ser Ala Ser Tyr Arg
 50 55 60
 Lys Asn Val Glu Gln Leu Val Pro Ala Ile Ile Tyr Val Leu Pro Leu
 65 70 75 80
 Arg Tyr Arg Asp Arg Val Val Lys Tyr Asp Ser Phe Ala Tyr Arg Met
 85 90 95
 Ala Arg Leu Glu Lys Glu Val Ser Glu Ala Lys Gln Ala Leu Met Leu
 100 105 110
 Asp Ala Pro Lys Lys Val Lys Leu Lys Glu Leu Gly Glu Gly Ile Phe
 115 120 125
 Glu Met Phe Arg Val Asp Pro Asp Val Thr Ala Pro Leu Leu Ala Met
 130 135 140
 Val Thr Thr Met Leu Gly Ala Met
 145 150

<210> 6859

<211> 330

<212> PRT

<213> Enterobacter cloacae

<400> 6859

Arg Arg Lys Pro Val Cys Val Asn Arg Thr Asp Phe Gln Val Gln Lys
 1 5 10 15
 Arg Ser Val Ile Ala Glu Leu Ser Met Ser Asn Thr Ala Glu Ile Ile
 20 25 30
 Asn Phe Pro His Arg Thr Glu Gln Pro Gly Gly Arg Met Ala Asp Leu

35 40 45
 Ser Asn Gly Tyr Thr Lys Val Ala Asn Glu Ile Gln Gln Leu Lys Pro
 50 55 60
 Arg Leu Arg Met Ser Gly Arg Glu Trp Gln Cys Phe Glu Ala Val Ile
 65 70 75 80
 Trp Leu Thr Tyr Gly Trp Asn Lys Lys Gln Asp Arg Val Thr Asn Thr
 85 90 95
 Val Ile Ala Glu Leu Thr Gly Leu Ser Asp Ser His Val Ser Asp Ala
 100 105 110
 Leu Lys Ser Leu Ala Glu Arg Lys Ile Ile Phe Ser Gln Lys Gln Gly
 115 120 125
 Val Met Lys Thr Val Gly Ile Asn Thr Asp Leu Ser Ala Trp Ile Leu
 130 135 140
 Asp Lys Pro Lys Thr Gly Lys Val Phe Pro Lys Ser Gly Lys Val Leu
 145 150 155 160
 Pro Lys Thr Gly Lys Thr Phe Pro Glu Thr Val Asp Thr Gln Asp Tyr
 165 170 175
 Asn Lys Asn Asn Ile Lys Arg Ser Ser Ser Arg Asn Ser Asp Glu Ser
 180 185 190
 Arg Asn Gln Lys Thr Gln Lys Phe Leu Ser Arg His Pro Glu Ala Ala
 195 200 205
 Asp Gly Ile Tyr Thr Pro Ala Gly Lys Ser Trp Gly Ser Ala Asp Asp
 210 215 220
 Leu Lys Ala Ala Arg Trp Ile Tyr Asp Arg Leu Leu Thr Val Asn Ala
 225 230 235 240
 Ser Leu Ser Glu Pro Asn Trp Ala Glu Trp Ala Asn Thr Ile Arg Leu
 245 250 255
 Met Arg Val Gln Asp Lys Arg Thr His Tyr Glu Ile Cys Asp Leu Phe
 260 265 270
 Gln Trp Ala Asn Arg Asp Glu Phe Trp Lys Asp Asn Ile Leu Ser Pro
 275 280 285
 Ser Ser Leu Arg Lys Gln Trp Asp Gln Leu Thr Thr Lys Arg Leu Arg
 290 295 300
 Ala Thr Gly Thr Ala Lys Pro Ser Arg Ser Gly Ile Asp Leu Leu Asn
 305 310 315 320
 Thr Asp Trp Ile Asp Gly Val Leu Glu
 325 330

<210> 6860

<211> 89

<212> PRT

<213> Enterobacter cloacae

<400> 6860

Ile Tyr Cys Ile Cys Ile Gln Leu Phe Ile Ala Glu Gly Lys Met Lys
 1 5 10 15
 Ile Glu Leu Thr Ile Asp Arg Met Lys Lys Leu Pro Val Gly Ala Ile
 20 25 30
 Pro Ala Leu Glu Ser Glu Leu Leu Lys Arg Leu Ser Lys Gln Phe Asp
 35 40 45
 Gly Cys Gln Ile Thr Ile Lys Arg Ala Ser Asn Asp Gly Leu Thr Val
 50 55 60
 Phe Gly Gly Asp Lys Lys Glu Val Glu His Ile Val Gln Glu Thr Trp
 65 70 75 80
 Glu Ser Ala Asp Glu Trp Phe Tyr
 85

<210> 6861

<211> 98

<212> PRT

<213> Enterobacter cloacae

<400> 6861

Cys Leu His Lys Pro His Glu Asp Ile Pro Met Lys Lys Arg Phe Ser
 1 5 10 15
 Asp Glu Gln Ile Ile Ser Ile Leu Arg Glu Ala Glu Ala Gly Val Pro
 20 25 30
 Ala Arg Glu Leu Cys Arg Lys His Ala Ile Ser Asp Ala Thr Phe Tyr
 35 40 45
 Ile Trp Arg Lys Lys Tyr Gly Gly Met Glu Val Pro Glu Val Lys Arg
 50 55 60
 Leu Lys Ser Leu Glu Glu Glu Asn Ala Arg Leu Lys Lys Leu Leu Ala
 65 70 75 80
 Glu Ala Met Leu Asp Lys Glu Ala Leu Gln Val Ala Leu Gly Arg Lys
 85 90 95

Tyr

<210> 6862

<211> 261

<212> PRT

<213> Enterobacter cloacae

<400> 6862

Tyr Trp Pro Lys Asn Lys Pro Glu Ala Gln Phe Gln Leu Met Asn Leu
 1 5 10 15
 Leu Ser Leu Leu Pro Val Gly Cys Asp Ile Phe Val Val Gly Glu Asn
 20 25 30
 Arg Ser Gly Val Arg Ser Ala Glu Gln Met Leu Glu Ala Trp Ala Pro
 35 40 45
 Leu Thr Lys Ile Asp Ser Ala Arg Arg Cys Gly Leu Tyr His Gly Arg
 50 55 60
 Leu Glu Lys Gln Thr Thr Phe Asp Ala Asp Ala Phe Trp Asp Glu Tyr
 65 70 75 80
 Gln Leu Glu Gly Leu Thr Ile Lys Thr Leu Pro Gly Val Phe Ser Arg
 85 90 95
 Asp Ala Leu Asp Thr Gly Ser Lys Leu Leu Leu Ser Thr Leu Thr Pro
 100 105 110
 His Thr Lys Gly Lys Val Leu Asp Val Gly Cys Gly Ala Gly Val Leu
 115 120 125
 Ser Thr Val Leu Ala Ser His Ser Pro Lys Val Arg Leu Thr Leu Cys
 130 135 140
 Asp Val Ser Ala Pro Ala Val Glu Ala Ser Arg Ala Thr Leu Ala Ala
 145 150 155 160
 Asn Gly Ile Glu Gly Asp Val Ile Ala Ser Asn Val Phe Ser Asp Val
 165 170 175
 Thr Gly Arg Phe Asp Met Ile Met Ser Asn Pro Pro Phe His Asp Gly
 180 185 190
 Met Glu Thr Ser Leu Glu Ala Ala Gln Thr Leu Ile Arg Gly Ala Thr
 195 200 205
 Arg His Leu Asn Ser Gly Gly Glu Leu Arg Ile Val Ala Asn Ala Phe
 210 215 220
 Leu Ala Tyr Pro Lys Val Leu Asp Glu Thr Phe Gly Phe His Glu Val
 225 230 235 240
 Ile Ala Gln Thr Gly Arg Phe Lys Val Tyr Arg Thr Val Met Thr Arg
 245 250 255
 Gln Ala Lys Lys
 260

<210> 6863

<211> 313

<212> PRT

<213> Enterobacter cloacae

<400> 6863

Tyr Arg Lys Pro Phe Ser Gln Leu Lys Glu Val Met Pro Thr Met Thr
 1 5 10 15
 Gln Val Ala Lys Lys Ile Leu Val Thr Cys Ala Leu Pro Tyr Ala Asn
 20 25 30
 Gly Ser Ile His Leu Gly His Met Leu Glu His Ile Gln Ala Asp Val
 35 40 45
 Trp Val Arg Tyr Gln Arg Met Arg Gly His Glu Val Asn Phe Ile Cys
 50 55 60
 Ala Asp Asp Ala His Gly Thr Pro Ile Met Leu Lys Ala Gln Gln Leu
 65 70 75 80
 Gly Ile Ser Pro Glu Gln Met Ile Ala Glu Met Ser Gln Glu His Gln
 85 90 95
 Thr Asp Phe Ala Gly Phe Asp Ile Ser Tyr Asp Asn Tyr His Ser Thr
 100 105 110
 His Ser Asp Glu Asn Arg Glu Leu Ser Glu Leu Ile Tyr Thr Arg Leu
 115 120 125
 Lys Glu Asn Gly Phe Ile Lys Asn Arg Thr Ile Ser Gln Leu Tyr Asp
 130 135 140
 Pro Glu Lys Gly Met Phe Leu Pro Asp Arg Phe Val Lys Gly Thr Cys
 145 150 155 160
 Pro Lys Cys Lys Ser Pro Asp Gln Tyr Gly Asp Asn Cys Glu Val Cys
 165 170 175
 Gly Ala Thr Tyr Ser Pro Thr Glu Leu Ile Glu Pro Lys Ser Val Val
 180 185 190
 Ser Gly Ala Thr Pro Val Met Arg Asp Ser Glu His Phe Phe Phe Asp
 195 200 205
 Leu Pro Ser Phe Ser Glu Met Leu Lys Ala Trp Thr Arg Ser Gly Ala
 210 215 220
 Leu Gln Glu Gln Val Ala Asn Lys Met Gln Glu Trp Phe Glu Ser Gly
 225 230 235 240
 Leu Gln Gln Trp Asp Ile Ser Arg Asp Ala Pro Tyr Phe Gly Phe Glu
 245 250 255
 Ile Pro Asn Ala Pro Gly Lys Tyr Phe Tyr Val Trp Leu Asp Ala Pro
 260 265 270
 Ile Gly Tyr Met Gly Ser Phe Lys Asn Leu Cys Asp Lys Arg Gly Asp
 275 280 285
 Thr Val Ser Phe Asp Glu Tyr Trp Lys Lys Asp Ser Asp Ala Glu Leu
 290 295 300
 Tyr His Phe Ile Gly Lys Asp Ile Val
 305 310

<210> 6864

<211> 367

<212> PRT

<213> Enterobacter cloacae

<400> 6864

Met Lys Ser Met Asn Lys Asn Phe Thr Ala Ile Phe Val Met Gly Ile
 1 5 10 15
 Val Leu Ala Gly Thr Met Ser Gln Ala Glu Ala Ala Asn Thr Val Trp
 20 25 30
 Asp Asp Gln Gln Ile Thr Asn Ile Val Asn Asp His Gln Asp Gln Ile
 35 40 45
 Thr Gln Asn Asn Ala Asp Ser Ile Asn Arg Asp Ser Ala Thr Asp Asn
 50 55 60
 Arg Leu Thr Gln Val Asn Asp Asp Leu Gln Ser Thr Lys Leu Gly Val
 65 70 75 80
 Leu Val Val Asp Lys Met Ala Asn Asp Ala His Gln Lys Ala Leu Leu

				85				90					95				
Ala	Gly	Ala	Leu	Ala	Asp	Thr	Ala	Ser	Leu	Lys	Ser	Glu	Thr	Ala	Leu		
			100					105					110				
Gln	Gly	Val	Ala	Thr	Asn	Gly	Thr	Ala	Ile	Ile	Asn	Leu	Gln	His	Val		
		115					120					125					
Asp	Asn	Ile	Gln	Asp	Ser	Arg	Leu	Thr	Ala	Leu	Glu	Asn	Ala	Pro	Lys		
	130					135					140						
Pro	Ile	Asn	Gly	Ala	Asp	Gly	Ala	Lys	Gly	Asp	Lys	Gly	Asp	Thr	Gly		
145					150					155					160		
Ala	Thr	Gly	Ala	Lys	Gly	Asp	Lys	Gly	Asp	Thr	Gly	Ala	Thr	Gly	Ala		
			165						170						175		
Lys	Gly	Asp	Lys	Gly	Asp	Thr	Gly	Val	Thr	Gly	Ala	Lys	Gly	Glu	Lys		
			180					185					190				
Gly	Asp	Ala	Gly	Ala	Thr	Gly	Met	Lys	Gly	Asp	Lys	Gly	Asp	Thr	Gly		
	195						200					205					
Ala	Gln	Gly	Ile	Ala	Gly	Arg	Asn	Gly	Arg	Asp	Gly	Ala	Asp	Gly	His		
	210					215					220						
Asn	Gly	Lys	Asp	Gly	Val	Thr	Thr	Thr	Val	Thr	Gln	Arg	Gln	Leu	Asp		
225					230					235					240		
Thr	Ala	Thr	Gln	Ala	Lys	Val	Ala	Lys	Asn	Ser	Met	Ala	Val	Thr	Ala		
			245						250						255		
Ala	Thr	Gln	Asp	Leu	Gln	Ala	Thr	Arg	Gln	Ser	Leu	Gln	Ala	Met	Asn		
		260						265					270				
Thr	Asn	Thr	Ser	Gln	Gln	Phe	Lys	Ser	Leu	Arg	Asp	Glu	Val	Asp	Asn		
		275					280					285					
Asn	Lys	Lys	Gln	Ala	Asn	Ala	Gly	Ile	Ser	Gly	Ala	Met	Ala	Met	Ala		
	290					295				300							
Gly	Leu	Pro	Gln	Val	Gln	Thr	Asn	Gln	Arg	Val	Met	Ser	Ser	Ala	Gly		
305					310					315					320		
Gly	Ala	Thr	Tyr	Asn	Gly	Glu	Ser	Ala	Leu	Ala	Val	Gly	Ala	Ser	Val		
			325						330					335			
Asn	Phe	Asn	Ser	His	Val	Ile	Ala	Lys	Val	Ser	Phe	Ser	Asp	Asp	Thr		
		340						345					350				
Ala	Asn	Asn	Met	Gly	Ala	Ser	Val	Gly	Ile	Gly	Met	Gly	Phe				
		355					360					365					

<210> 6865

<211> 467

<212> PRT

<213> Enterobacter cloacae

<400> 6865

Arg	Ser	Gly	Gly	Cys	Arg	Ser	Asp	Met	Met	Thr	Asp	Lys	Val	Arg	Ile		
1			5					10					15				
Asp	Thr	Val	Asp	Ala	His	Lys	Ser	Asn	Glu	Thr	Tyr	Leu	Ala	Arg	Gln		
		20					25					30					
Ala	Glu	Phe	Glu	Ser	Asn	Val	Arg	Ser	Tyr	Pro	Arg	Lys	Leu	Pro	Leu		
	35					40					45						
Ala	Ile	Thr	Lys	Ala	Glu	Gly	Val	Trp	Ile	Thr	Asp	Ala	Asp	Asn	Lys		
	50				55					60							
Glu	Tyr	Leu	Asp	Cys	Leu	Ala	Gly	Ala	Gly	Thr	Leu	Ala	Leu	Gly	His		
65				70					75					80			
Asn	His	Pro	Asp	Val	Leu	Lys	Ser	Ile	Gln	Asn	Val	Ile	Thr	Ser	Gly		
			85					90					95				
Leu	Pro	Leu	His	Thr	Leu	Asp	Leu	Thr	Thr	Pro	Leu	Lys	Asp	Ala	Phe		
		100					105					110					
Ser	Glu	Tyr	Leu	Leu	Ser	Leu	Leu	Pro	Gly	Gln	Gly	Lys	Glu	Tyr	Cys		
		115				120					125						
Leu	Gln	Phe	Thr	Gly	Pro	Ser	Gly	Ala	Asp	Ala	Val	Glu	Ala	Ala	Leu		
	130					135				140							
Lys	Leu	Ala	Lys	Lys	Val	Thr	Gly	Arg	Ser	Gly	Ile	Ile	Ser	Phe	Ser		

145		150		155		160
Gly Gly Tyr His	Gly Met Thr His	Gly Ala Leu Ser Val Thr	Gly Asn			
	165		175			
Leu Ser Pro Lys	Glu Ala Val Asp	Gly Met Met Pro Glu Val	Gln Phe			
	180		190			
Met Pro Tyr Pro	His Glu Tyr Arg	Cys Pro Leu Gly Ile	Gly Gly Glu			
	195		205			
Ala Gly Val Lys	Ala Leu Thr Tyr	Tyr Phe Glu Asn Leu Ile	Asn Asp			
	210		220			
Val Glu Ser Gly	Val Arg Lys Pro	Ala Ala Val Ile Leu Glu	Ala Val			
	225		235			
Gln Gly Glu Gly	Gly Val Asn Pro	Ala Pro Val Glu Trp Leu	Gln Arg			
	245		255			
Ile Arg Lys Val	Thr Gln Glu His	Gly Ile Leu Leu Ile Leu	Asp Glu			
	260		270			
Val Gln Ala Gly	Phe Ala Arg Thr	Gly Lys Phe Phe Ala Phe	Glu His			
	275		285			
Ala Gly Ile Glu	Pro Asp Ile Ile	Val Met Ser Lys Ala Val	Gly Gly			
	290		300			
Gly Leu Pro Leu	Ala Val Leu Gly	Ile Lys Lys Gln Phe Asp	Ala Trp			
	305		315			
Ala Pro Gly His	His Thr Gly Thr	Phe Arg Gly Asn Gln Leu	Ala Met			
	325		335			
Ala Thr Gly Leu	Thr Thr Leu Lys	Ile Leu Lys Asp Gln Asn	Ile Ala			
	340		350			
Gly Lys Val Ala	Ala Gln Gly Glu	Trp Leu Lys Gly Gln Leu	Lys Glu			
	355		365			
Met Ala Lys Arg	Tyr Pro Val Ile	Gly His Val Arg Gly Leu	Gly Met			
	370		380			
Met Ile Gly Ile	Glu Ile Val Lys	Pro His Glu Ala Ala Asp	His Met			
	385		395			
Gly Cys Phe Pro	Gly Asp Gly Glu	Leu Ser Ala Leu Ile Gln	Lys Lys			
	405		415			
Cys Phe Glu Ala	Gly Leu Ile Leu	Glu Arg Gly Gly Arg Asn	Gly Ile			
	420		430			
Val Leu Arg Leu	Leu Leu Pro Ser	Leu Leu Ile Ser Asp Asp	Glu Leu Lys			
	435		445			
Val Phe Leu Asp	Lys Phe Glu Gln	Ala Leu Leu Ala Ala Gly	Val Ser			
	450		460			
Pro Ala						
465						

<210> 6866

<211> 495

<212> PRT

<213> Enterobacter cloacae

<400> 6866

Pro Glu Leu Leu	Ile Thr Met Ser	Asp Ser Asn Pro	Ile Leu Phe Ser
1	5	10	15
Ser Ala Gln Ser	Ile Glu Ala Tyr	Gln Gln Ala Ile	Glu Gln Ser Thr
	20		30
Gln Ala Val Met	Gln Trp Leu Lys	Gln Pro Glu Met	Tyr Gln Gly Lys
	35		45
Thr Val Ala Glu	Leu Arg Asp Arg	Ile Lys Leu Asp	Phe Asn Pro Lys
	50		60
Gly Leu Gly Asn	Glu Ala Ile Glu	Arg Ala Val Glu	Phe Phe Leu
	65		75
Lys Asp Ser Leu	Ser Val His His	Pro Gln Cys Val	Ala His Leu His
	85		95
Cys Pro Ser Leu	Val Val Ser Gln	Ala Ala Glu Val	Leu Ile Asn Ala

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<210> 6867
<211> 133
<212> PRT
<213> Enterobacter cloacae

<400> 6867
Thr Val Cys His Pro Phe Ala Asp Leu His Thr Lys Ser Ile Ser Asn
1          5          10          15
Asp Met Thr Gly Glu Lys Met Ala Lys Arg Lys Leu Leu Leu Gly
          20          25          30
Val Leu Val Ser Leu Ala Gly Ala Ala His Ala Ala Pro Gln Ala Ser

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35 40 45
 Thr Ala Pro Ser Gly Ile Lys Ala Tyr Glu Glu Gln Glu Phe Ile Ala
 50 55 60
 Asp Phe Thr Lys Phe Lys Ile Gly Asp Thr Ala Pro Ala Gln Tyr Gln
 65 70 75 80
 Thr Pro Glu Tyr Thr Ile Lys Gln Tyr Gln Leu Arg Asn Leu Pro Ala
 85 90 95
 Pro Asp Ala Gly Thr His Trp Thr Tyr Met Gly Glu Asn Tyr Val Leu
 100 105 110
 Ile Gly Asp Ala Asp Gly Lys Ile Tyr Lys Ala Tyr Asn Gly Asp Ile
 115 120 125
 Phe Tyr His Arg
 130

<210> 6868

<211> 164

<212> PRT

<213> Enterobacter cloacae

<400> 6868

Leu Ala Met Pro Met Ala Lys Ser Thr Lys Pro Ile Thr Glu Ile Phe
 1 5 10 15
 Ser Ile Thr Ala Asp Thr Ile Leu Ile Arg Pro Trp Gln Glu Ser Asp
 20 25 30
 Arg Pro Phe Leu Arg Thr Leu Phe Leu His Ala Arg Arg Glu Ala Trp
 35 40 45
 Pro Trp Leu Asp Ser Ser Ala Trp Gln Leu Glu Asp Phe Asp Ala Ala
 50 55 60
 Thr Leu Asp Glu Glu Ile Trp Val Ala Glu Gln Asp Gly His Arg Leu
 65 70 75 80
 Gly Phe Ala Ser Val Trp Thr Asn Asp Asn Phe Leu His Asn Leu Phe
 85 90 95
 Val Asp Pro Gln Tyr Gln Arg Leu Gly Val Gly His Leu Leu Leu Glu
 100 105 110
 Gln Val Gln Lys Thr Phe Thr Asn Thr Gly Ala Leu Lys Cys Leu Val
 115 120 125
 Lys Asn Glu Arg Ala Ile Ala Phe Tyr His Arg His Gly Trp His Ile
 130 135 140
 Glu Ala Thr Gly Asp Ser Pro Asp Gly Glu Tyr Tyr Leu Met His Tyr
 145 150 155 160
 Arg Leu Gly

<210> 6869

<211> 750

<212> PRT

<213> Enterobacter cloacae

<400> 6869

Ser Gln Pro Gly Met Gly Thr Ser Phe Arg Ser Glu Arg Asn Glu Ala
 1 5 10 15
 Leu Met Ser Ser Tyr Thr Thr Asp Asn Tyr Gly Ala Ala Ala Pro Gln
 20 25 30
 Gln His Glu Val Asp Leu Val Arg Leu Leu Val Glu Met Ile Asp His
 35 40 45
 Arg Thr Met Ile Leu Cys Val Thr Phe Leu Phe Thr Leu Cys Ala Gly
 50 55 60
 Leu Tyr Ala Trp Val Thr Pro Pro Val Tyr Gln Ala Asp Ala Met Val
 65 70 75 80
 Gln Ile Glu Ser Lys Gln Asp Asn Ser Leu Leu Lys Gly Leu Ser Gln
 85 90 95

Leu Gly Thr Asp Val Ser Pro Asp Val Ala Pro Glu Ile Leu Leu Leu
 100 105 110
 Lys Ser Arg Met Ile Leu Gly Glu Thr Val Asp Lys Leu Gly Leu Thr
 115 120 125
 Gln Gln Ala Lys Gln Arg Val Leu Pro Val Val Gly Arg Leu Trp Gln
 130 135 140
 Arg Leu Gln Gly Arg Gly Gln Gly Lys Ile Thr Leu Gly Glu Leu Gln
 145 150 155 160
 Ile Pro Gln Val Glu Gly Lys Ala Gln Glu Leu Thr Leu Thr Val Gln
 165 170 175
 Glu Ala Gly Lys Tyr His Leu Lys Gly Glu Asn Ile Lys Ala Glu Gly
 180 185 190
 Arg Val Gly Lys Thr Leu Val Thr Gln Gly Ile Val Leu Leu Val Thr
 195 200 205
 Ser Ile Glu Ala Thr Pro Gly Thr Gln Phe Ser Leu Lys Ser Leu Thr
 210 215 220
 Arg Leu Glu Thr Ile Asn Ala Leu Lys Lys Ser Leu Thr Val Thr Glu
 225 230 235 240
 Ser Glu Lys Gln Ser Gly Ile Val Thr Leu Thr Leu Thr Gly Glu Asp
 245 250 255
 Pro Asp Asn Ile Ala Arg Val Leu Asn Ala Ile Ala Asp Asn Tyr Leu
 260 265 270
 Gln Gln Asn Ile Ala Arg Gln Glu Ala Gln Asp Ser Arg Ser Leu Asp
 275 280 285
 Phe Leu Gln Glu Gln Leu Pro Lys Ile Arg Ala Asp Leu Asp Gln Ala
 290 295 300
 Glu Ala Arg Leu Asn Ala Tyr Arg Ala Gln Arg Asp Ser Val Asp Leu
 305 310 315 320
 Ser Leu Glu Ala Lys Ser Val Leu Asp Gln Val Val Asn Val Glu Asn
 325 330 335
 Gln Leu Asn Glu Leu Thr Phe Arg Glu Ala Glu Ile Ser Gln Leu Phe
 340 345 350
 Lys Lys Ser His Pro Thr Tyr Arg Ala Leu His Glu Lys Arg Gln Thr
 355 360 365
 Leu Glu Arg Glu Arg Asp Arg Leu Asn Asn Arg Val Ser Ala Met Pro
 370 375 380
 Ser Thr Gln Gln Glu Ile Leu Arg Leu Ser Arg Asp Val Glu Ser Gly
 385 390 395 400
 Arg Thr Ile Tyr Leu Gln Leu Leu Thr Arg Gln Gln Glu Leu Asn Ile
 405 410 415
 Ser Arg Ser Ser Ala Val Gly Asn Val Arg Ile Ile Asp Glu Ala Val
 420 425 430
 Thr His Pro Asp Pro Ile Lys Pro Arg Lys Ala Leu Ile Ile Ile Leu
 435 440 445
 Gly Ala Leu Phe Gly Leu Met Leu Ala Met Gly Thr Val Leu Val Arg
 450 455 460
 Gln Ala Phe Lys Arg Gly Ile Thr Leu Ser Glu Gln Leu Glu Ala Gln
 465 470 475 480
 Gly Leu Pro Val Leu Ala Thr Leu Pro Arg Ser Gln Trp Leu Trp Ser
 485 490 495
 Lys Thr His Leu Arg Arg Lys Asn Pro Phe Ser Arg Arg Trp Lys His
 500 505 510
 Lys Thr Ser Asp Val Pro Phe Leu Pro Val Asp Arg Pro Ala Asp Met
 515 520 525
 Phe Val Glu Ala Val Arg Gly Leu Arg Thr Ser Leu Tyr Phe Ala Met
 530 535 540
 Met Glu Ala Glu Asn Arg Ile Val Met Ile Ser Gly Pro Thr Gln Asp
 545 550 555 560
 Cys Gly Lys Thr Leu Val Ala Thr Asn Leu Ala Ala Val Ala Gly Gln
 565 570 575
 Ser Gly Gln Arg Val Leu Phe Ile Asp Ala Asp Met Arg Gln Gly Tyr

			580					585				590					
Val	His	Asn	Ile	Phe	Gly	Leu	Glu	Asn	Arg	Tyr	Gly	Leu	Ser	Cys	Leu		
		595					600					605					
Leu	Glu	Gly	Lys	Cys	Asp	Phe	Thr	Glu	Val	Ile	Gln	His	Ala	Glu	Lys		
	610					615					620						
Ala	Gly	Ile	Asp	Val	Ile	Thr	Cys	Gly	Pro	Glu	Pro	Leu	Arg	Pro	Leu		
625					630					635					640		
Glu	Leu	Leu	Leu	Ser	Glu	Arg	Phe	Leu	Asp	Ile	Met	Ser	Trp	Val	Asn		
				645					650					655			
Glu	Gln	Tyr	Asp	Ile	Val	Ile	Ile	Asp	Thr	Pro	Pro	Val	Leu	Ala	Val		
			660					665					670				
Thr	Asp	Ala	Ser	Leu	Val	Ala	Arg	Ala	Ala	Gly	Thr	Thr	Leu	Met	Val		
		675					680						685				
Ala	Arg	Phe	Asp	Lys	Thr	Ser	Val	Lys	Glu	Met	Glu	Asn	Thr	Val	Lys		
	690					695					700						
Arg	Leu	Gln	His	Val	Gly	Val	Lys	Val	Ser	Gly	Thr	Ile	Leu	Asn	Asp		
705					710					715					720		
Ile	Val	Lys	Ser	Ala	Ala	Leu	Phe	Tyr	Ser	Ser	Gly	Tyr	Ser	Gln	Cys		
			725					730						735			
Asp	Tyr	Gly	Tyr	Ala	Ser	Arg	Lys	Lys	Gly	Asp	Arg	Arg					
			740					745					750				

<210> 6870

<211> 168

<212> PRT

<213> Enterobacter cloacae

<400> 6870

Cys	Gln	Arg	Arg	Glu	Val	Arg	Cys	Leu	Pro	Gly	His	Arg	Phe	Phe	Thr		
1				5					10					15			
His	Gly	Arg	Ser	Glu	Thr	Met	Gln	Pro	Asp	Leu	Leu	Asp	Ser	His	Val		
			20					25					30				
Leu	His	Gln	Phe	Arg	Thr	Arg	Ser	Pro	Leu	Thr	His	Cys	Met	Thr	Asn		
	35						40					45					
Asp	Val	Val	Gln	Thr	Phe	Thr	Ala	Asn	Val	Leu	Leu	Ala	Leu	Gly	Ala		
50						55					60						
Ser	Pro	Ala	Met	Val	Ile	Glu	Ala	Glu	Glu	Ala	Gln	Phe	Ala	Ala			
65				70					75					80			
Leu	Ala	Asp	Ala	Leu	Ile	Asn	Val	Gly	Thr	Leu	Thr	Ala	Pro	Arg			
				85				90					95				
Ala	Gln	Ser	Met	Arg	Arg	Ala	Ile	Glu	Ser	Ala	Val	Ala	Ala	Gly	Thr		
			100					105					110				
Pro	Trp	Val	Leu	Asp	Pro	Val	Ala	Val	Gly	Ala	Leu	Ala	Phe	Arg	Thr		
			115				120					125					
Arg	Phe	Cys	Gln	Gln	Ile	Leu	Ser	Leu	Lys	Pro	Ala	Ala	Ile	Arg	Gly		
	130					135				140							
Asn	Ala	Ser	Glu	Ile	Leu	Ala	Leu	Ala	Gly	Met	Ser	Ala	Gly	Gly	Arg		
145				150					155						160		
Gly	Val	Asp	Ser	Thr	Asp	Thr	Ala										
				165													

<210> 6871

<211> 164

<212> PRT

<213> Enterobacter cloacae

<400> 6871

Pro	Tyr	Arg	Asn	Gly	Ser	Leu	His	Gln	Ile	Val	Ala	Ala	Ile	Met	Phe		
1				5					10					15			
Lys	Ser	Ile	Leu	Val	Val	Cys	Thr	Gly	Asn	Ile	Cys	Arg	Ser	Pro	Ile		
			20					25					30				

Gly Glu Arg Leu Leu Arg Gln His Leu Pro Asp Arg His Ile Ala Ser
 35 40 45
 Ala Gly Ile Tyr Gly Leu Glu Gly Cys Pro Ala Asp Ser Ala Gln
 50 55 60
 Asp Val Ala Trp Arg His Gly Ile Ser Leu Asp Gly His Val Ala Arg
 65 70 75 80
 Arg Leu Thr Arg Asn Leu Met Gln Gly Ser Asp Leu Ile Leu Val Met
 85 90 95
 Glu Pro Glu His Leu Arg Phe Ile Ala Ala Met Ala Pro Glu Ser Arg
 100 105 110
 Gly Lys Ser Leu Leu Phe Gly Gln Trp Leu Glu Pro Gln Asp Ile Pro
 115 120 125
 Asp Pro Tyr Arg Lys Ser Arg Glu Ala Phe Glu Tyr Val Phe Gly Leu
 130 135 140
 Leu Gly Lys Ala Ser Gln Glu Trp Ala Arg Arg Leu Gly Gln Lys Gly
 145 150 155 160
 Met Lys His

<210> 6872

<211> 380

<212> PRT

<213> Enterobacter cloacae

<400> 6872

Gly Leu Ile His Lys Asn Lys Gly Val Gly Met Ser Ser Gln Ser Gln
 1 5 10 15
 Ala Lys Ser Pro Glu Ala Leu Arg Ala Met Val Ala Gly Thr Leu Ala
 20 25 30
 Asn Phe Gln His Pro Thr Leu Lys His Asn Leu Thr Thr Leu Lys Ala
 35 40 45
 Leu His His Val Ala Trp Leu Asp Asp Thr Leu His Ile Glu Leu Gln
 50 55 60
 Met Pro Phe Val Trp Thr Ser Ala Phe Asp Ala Leu Lys Glu Gln Thr
 65 70 75 80
 Ser Ser Glu Leu Leu Arg Ile Thr Gly Ala Lys Ala Ile Asp Trp Lys
 85 90 95
 Leu Ser His Ser Ile Ala Thr Leu Lys Arg Val Lys Asn Gln Pro Gly
 100 105 110
 Val Asn Gly Val Lys Asn Ile Ile Ala Val Ser Ser Gly Lys Gly Gly
 115 120 125
 Val Gly Lys Ser Ser Thr Ala Val Asn Leu Ala Leu Ala Leu Ala Ala
 130 135 140
 Glu Gly Ala Lys Val Gly Ile Leu Asp Ala Asp Ile Tyr Gly Pro Ser
 145 150 155 160
 Ile Pro Asn Met Leu Gly Ala Glu Asn Gln Arg Pro Thr Ser Pro Asp
 165 170 175
 Gly Thr His Met Ala Pro Ile Val Ala His Gly Leu Ala Thr Asn Ser
 180 185 190
 Ile Gly Tyr Leu Val Thr Asp Asp Asn Ala Met Val Trp Arg Gly Pro
 195 200 205
 Met Ala Ser Lys Ala Leu Leu Gln Met Leu Gln Glu Thr Met Trp Pro
 210 215 220
 Asp Leu Asp Tyr Leu Val Leu Asp Met Pro Pro Gly Thr Gly Asp Ile
 225 230 235 240
 Gln Leu Thr Leu Ala Gln Asn Ile Pro Val Thr Gly Ala Val Val Val
 245 250 255
 Thr Thr Pro Gln Asp Ile Ala Leu Ile Asp Ala Lys Lys Gly Ile Val
 260 265 270
 Met Phe Glu Lys Val Lys Val Pro Val Leu Gly Ile Val Glu Asn Met
 275 280 285

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<210> 6873
<211> 401
<212> PRT
<213> Enterobacter cloacae
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Asn 1	Gly	Lys	Asn 5	His	Phe	Gly	Thr	Tyr	Ser 10	Ile	Ile	Asn	Thr	Ile 15	Lys
Arg	Tyr	Phe	Tyr 20	Ser	Met	Lys	Asn 25	Thr	Thr	Val	Phe	Ser	Ile 30	Leu	Phe
Leu	Ile	Ile 35	Thr	Pro	Leu	Ser	Gly 40	Cys	Val	Phe	Ser	Pro 45	Gly	Gln	His
Leu	Asp 50	Leu	Ala	Gly	Lys	Gln 55	Val	Met	Thr	Thr	Glu 60	Asn	Ala	Asn	Asp
Arg 65	Leu	Glu	Lys	Arg	Ile 70	Asp	Val	Tyr	Pro	Leu 75	Thr	Pro	Ser	Leu	Ile 80
Glu	Lys	Leu	Arg 85	Pro	Ser	Ala	Leu	Lys	Ser 90	Gln	Ala	Asn	Pro	Lys 95	Leu
Asp	Glu	Gln	Val 100	Lys	Asn	Trp	Glu	Tyr 105	Arg	Ile	Gly	Val	Gly 110	Asp	Ile
Leu	Thr	Val 115	Thr	Val	Trp	Asp	His 120	Pro	Glu	Leu	Thr	Thr 125	Pro	Ala	Gly
Gln	Tyr 130	Arg	Ser	Ala	Ser	Asp 135	Thr	Gly	Asn	Trp	Val 140	Asn	Ala	Asp	Gly
Thr 145	Leu	Phe	Tyr	Pro	Tyr 150	Val	Gly	Lys	Leu	Gln 155	Val	Ala	Gly	Lys	Thr 160
Val	Ala	Arg	Val 165	Arg	Glu	Glu	Ile	Thr	Ala 170	Arg	Leu	Asn	Asn	Val 175	Ile
Glu	Ser	Pro	Gln 180	Val	Asp	Val	Ser	Val 185	Ala	Ser	Phe	Arg	Ser 190	Gln	Lys
Ala	Tyr 195	Val	Thr	Gly	Glu	Val	Val 200	Lys	Ser	Gly	Gln 205	Gln	Ala	Ile	Thr
Asn 210	Ile	Pro	Leu	Thr	Val	Met 215	Asp	Ala	Val	Asn 220	Ala	Ala	Gly	Gly	Leu
Ser 225	Ala	Asp	Ala	Asp 230	Trp	Arg	Asn	Val	Val	Leu 235	Thr	His	Asn	Gly	Lys 240
Asp	Met	Arg	Leu 245	Ser	Leu	Tyr	Ala	Leu	Met 250	Gln	His	Gly	Asp	Leu 255	Thr
Gln	Asn	Lys	Leu 260	Leu	Tyr	Pro	Gly	Asp 265	Ile	Leu	Phe	Val	Pro 270	Arg	Asn
Asp	Ala	Leu	Lys 275	Val	Phe	Val	Met 280	Gly	Glu	Val	Val	Lys 285	Gln	Ser	Thr
Leu	Lys 290	Met	Asp	Arg	Ser	Gly 295	Met	Thr	Leu	Ala	Glu 300	Ala	Leu	Gly	Asn
Ala 305	Gly	Gly	Leu	Asn 310	Gln	Asn	Met	Ala	Asp 315	Ala	Thr	Gly	Ile	Phe	Val 320
Ile	Arg	Ser	Leu 325	Pro	Lys	Ser	Glu	Arg	Ser 330	Glu	Lys	Ile	Ala	Asn 335	Ile

[illegible]

Tyr Gln Leu Asn Ala Gln Asp Ala Ser Ala Met Val Leu Gly Thr Glu
 340 345 350
 Phe Gln Leu Glu Pro Tyr Asp Ile Val Tyr Val Thr Thr Ala Pro Leu
 355 360 365
 Ser Arg Trp Asn Arg Val Ile Ser Gln Leu Val Pro Thr Ile Ser Gly
 370 375 380
 Val His Asp Leu Thr Glu Thr Val Arg Tyr Ile Arg Ser Trp Pro Gln
 385 390 395 400

<210> 6874

<211> 280

<212> PRT

<213> Enterobacter cloacae

<400> 6874

Ala Ile Thr Asp Ala Gln Met Lys Asp Ser Ile Ser Asn Tyr Ile Leu
 1 5 10 15
 Ser Trp Val Glu Glu Asn Asn Phe Thr Ile Leu His Ile Gly Asp Leu
 20 25 30
 Val Ala Asp Ile Gly Tyr Ser Arg Arg Thr Ile Glu Thr Trp Phe Lys
 35 40 45
 Glu Lys Tyr Arg Leu Ser Leu Gly Glu Tyr Ile Leu Arg Arg Arg Leu
 50 55 60
 Ser Arg Ala Ala Ile Met Leu Arg Met Thr Ser Ile Pro Val Thr Asp
 65 70 75 80
 Ile Ala Tyr Leu Phe His Tyr Gln Ser Ser Gln Gly Phe Ser Arg Ala
 85 90 95
 Phe Lys Lys Met Met Gly Leu Thr Pro Ser Glu Tyr Arg Cys Ala Arg
 100 105 110
 Gly Trp Asn Phe Asp Ile Leu Gln Pro Ser Phe Leu Leu Ser Glu His
 115 120 125
 Glu Thr Pro Glu Leu Glu Val Cys Tyr Leu Asp Glu Thr Phe Ile Tyr
 130 135 140
 Thr His Glu Phe Ile Glu His Asp His Leu Phe Asp Thr Ser Val His
 145 150 155 160
 Asp Ile Thr Lys Lys Ile Lys Lys Leu Leu Thr Glu Asn Arg His Asp
 165 170 175
 Ile Asp Lys Ile Ile Leu Met Pro Arg Arg Pro Glu Leu Gly Lys Ser
 180 185 190
 Arg Ser Tyr Leu Val Glu Val Leu Ile Ser Tyr Ala Leu Gln Ser Asp
 195 200 205
 Thr Val Thr Asn Lys Lys Ser Cys Ile Val Arg Gly Arg Tyr Ala Arg
 210 215 220
 Met Pro Phe Ser Gly Ser Trp Glu Ile Tyr Ser Ala Phe Asn Lys Ile
 225 230 235 240
 Ala Phe Val Lys Ala Met Val Asn Gln Arg Leu Thr Leu Arg Asp Gly
 245 250 255
 Ile Tyr Leu Met Lys Ile Asn Gly Tyr Ser Asp Glu Cys Val Asp Phe
 260 265 270
 Asp Val Phe Ile Pro Ile Leu
 275 280

<210> 6875

<211> 254

<212> PRT

<213> Enterobacter cloacae

<400> 6875

Met Asp Ala Met Asn Ser Arg Gln Gln Ile Ile Leu Gln Met Val Ile

1				5					10				15				
Asp	Gln	Gly	Arg	Val	Ser	Val	Val	Asp	Leu	Ala	Lys	Ala	Thr	Gly	Val		
			20					25					30				
Ser	Glu	Val	Thr	Ile	Arg	Gln	Asp	Leu	Asn	Leu	Leu	Glu	Lys	Gln	Ser		
		35					40					45					
Tyr	Leu	Arg	Arg	Ala	His	Gly	Tyr	Ala	Val	Pro	Leu	Asp	Ser	Asp	Asp		
	50					55					60						
Val	Glu	Thr	Arg	Met	Met	Asn	Asn	Tyr	Ala	Leu	Lys	Arg	Glu	Leu	Ala		
65				70						75					80		
Glu	Phe	Ala	Ala	Ser	Leu	Val	Asn	Asn	Gly	Glu	Thr	Val	Phe	Ile	Glu		
				85					90					95			
Asn	Gly	Ser	Ser	Asn	Ala	Leu	Leu	Ala	Arg	Thr	Leu	Ala	Asp	Gln	Lys		
			100					105					110				
Asp	Val	Thr	Ile	Ile	Thr	Val	Ser	Ser	Tyr	Ile	Ala	His	Leu	Leu	Lys		
		115					120					125					
Asp	Thr	Arg	Cys	Glu	Val	Ile	Leu	Leu	Gly	Gly	Ile	Tyr	Gln	Lys	Lys		
	130					135					140						
Ser	Glu	Ser	Met	Val	Gly	Pro	Leu	Thr	Arg	Gln	Tyr	Val	Gln	Gln	Val		
145				150						155					160		
His	Phe	Ser	Lys	Ala	Phe	Ile	Gly	Ile	Asp	Gly	Trp	Gln	Pro	Asp	Thr		
			165						170					175			
Gly	Phe	Thr	Gly	Arg	Asp	Met	Met	Arg	Ser	Asp	Val	Val	Asn	Ala	Val		
			180					185					190				
Leu	Ala	Lys	Glu	Cys	Glu	Ala	Ile	Val	Leu	Thr	Asp	Ser	Ser	Lys	Phe		
		195				200					205						
Gly	Ala	Val	His	Pro	Tyr	Thr	Met	Gly	Pro	Ala	Ser	Arg	Phe	Ser	Arg		
	210					215					220						
Val	Ile	Thr	Asp	Glu	Arg	Leu	Arg	Asp	Glu	Tyr	Arg	Gln	Gln	Leu	Glu		
225				230						235					240		
Gln	Asp	Gly	Leu	Thr	Val	Asp	Ile	Val	Lys	Lys	Thr	Ala					
			245						250								

<210> 6876

<211> 81

<212> PRT

<213> Enterobacter cloacae

<220>

<221> UNSURE

<222> (53)

<400> 6876

Gln	Val	Ala	Leu	Asp	Asn	Leu	Arg	Ala	Thr	Leu	Ala	Ala	Ala	Gly	Cys		
1				5					10					15			
Thr	Phe	Asp	Asp	Leu	Ile	Asp	Val	Lys	Thr	Phe	His	Thr	Asp	Pro	Glu		
		20						25					30				
Asn	Gln	Phe	Pro	Ala	Ile	Met	Glu	Ala	Lys	Lys	Leu	Ala	Phe	Pro	His		
		35				40					45						
Pro	Pro	Tyr	Pro	Xaa	Trp	Thr	Ala	Ile	Gly	Val	Asn	Trp	Leu	Ala	Gly		
	50					55					60						
Phe	Asp	Phe	Glu	Ile	Lys	Val	Ile	Ala	Arg	Ile	Pro	Thr	Pro	Ala	Asn		
65				70					75						80		

<210> 6877

<211> 334

<212> PRT

<213> Enterobacter cloacae

<400> 6877

Asp	Gln	Gly	Thr	Pro	Met	Glu	Gln	Arg	Arg	Phe	Ser	Gly	Lys	Gly	His
1				5					10					15	
Trp	Tyr	His	Glu	Thr	Gln	Ser	Asn	His	Ser	Gln	Thr	Asp	Val	Leu	Pro
			20					25					30		
Leu	Val	Pro	Glu	Ala	Ala	Asn	Val	Asp	Asp	Arg	Phe	Leu	Leu	Asp	Leu
		35				40						45			
Ala	Leu	Pro	Asp	Asp	Ile	Leu	Ala	Ser	Cys	Ala	Gly	Trp	Leu	Ala	Pro
	50					55				60					
Ala	Arg	Thr	Leu	Cys	His	Leu	Leu	Phe	Pro	Leu	Asp	Thr	Pro	Val	Ser
65					70				75						80
Arg	Leu	His	Thr	Leu	Ser	Ala	Tyr	Asp	Arg	Leu	Ser	Thr	Ala	Leu	Thr
			85					90						95	
Val	Ala	Gln	Ala	Cys	Gly	Val	Gln	Arg	Leu	Cys	Asn	His	Tyr	Ala	Ala
			100					105					110		
Leu	Leu	Ala	Pro	Leu	Pro	Gly	Pro	Asp	Ser	Ser	Arg	Glu	Ser	Asn	Arg
		115				120						125			
Arg	Leu	Ala	Glu	Ile	Thr	Gln	Tyr	Ala	Arg	Gln	Leu	Ala	Ser	Ser	Pro
	130					135					140				
Asp	Val	Ile	Asp	Asp	Lys	Ala	Gln	Asn	Gln	Leu	Asp	Glu	Val	Gly	Leu
145					150				155						160
Thr	Thr	Tyr	Asp	Ile	Val	Leu	Ile	Asn	Gln	Ile	Ile	Gly	Phe	Val	Gly
			165					170						175	
Phe	Gln	Ala	Arg	Val	Val	Ala	Val	Phe	Gln	Ala	Leu	Leu	Gly	His	Pro
		180						185					190		
Val	Arg	Trp	Leu	Pro	Gly	His	His	Ile	Gln	Pro	His	Thr	Leu	Pro	Val
	195					200						205			
Ser	Phe	Ser	Arg	Trp	Thr	Ala	Thr	Leu	Pro	Ala	Val	Glu	Leu	Lys	Tyr
	210				215					220					
Ala	Ser	Ala	Leu	Gln	Leu	Glu	Ala	Leu	Ser	Arg	Trp	Gln	Ala	Glu	Pro
225				230						235					240
Ala	Leu	Glu	Ala	Leu	Thr	Pro	Val	Leu	Cys	His	Glu	Pro	Met	Leu	Leu
			245					250						255	
Asn	Leu	Thr	Gly	Glu	Ile	Leu	Leu	Asn	His	Pro	Leu	Ser	Glu	Gly	Pro
		260						265					270		
Ala	Ser	Ser	Met	Ile	Ser	Ala	Ala	Leu	Ala	Leu	Leu	Val	Ala	Ser	Pro
		275				280						285			
Asp	Arg	Phe	Ser	Ala	Thr	Gln	Leu	Thr	Pro	Leu	Thr	Gly	Ser	Gly	Leu
	290				295					300					
Ser	Pro	Glu	Lys	Ala	Ile	Asn	Leu	Leu	Thr	Arg	Asp	Ala	Phe	Tyr	Gly
	305				310					315					320
Trp	Leu	Asn	Arg	Leu	Arg	Val	Ala	Leu	Gly	Lys	Glu	Glu			
			325						330						

<210> 6878

<211> 271

<212> PRT

<213> Enterobacter cloacae

<400> 6878

Ala	Met	Asn	Ile	Arg	Ile	Lys	Ala	Met	Gly	Phe	Leu	Ser	Gly	Lys	Arg
1				5					10					15	
Ile	Leu	Val	Thr	Gly	Val	Ala	Ser	Lys	Leu	Ser	Ile	Ala	Tyr	Gly	Ile
			20					25					30		
Ala	Gln	Ala	Met	His	Arg	Glu	Gly	Ala	Glu	Leu	Ala	Phe	Thr	Tyr	Gln
		35				40						45			
Asn	Asp	Lys	Leu	Lys	Gly	Arg	Val	Glu	Glu	Phe	Ala	Ala	Gln	Leu	Gly
	50				55					60					
Ser	Ser	Ile	Val	Leu	Glu	Cys	Asp	Val	Ala	Gln	Asp	Glu	Ser	Ile	Asp
65					70				75						80
Gly	Met	Phe	Ala	Glu	Leu	Ala	Lys	Ala	Trp	Pro	Lys	Phe	Asp	Gly	Phe
			85						90					95	

Val	His	Ser	Ile	Gly	Phe	Ala	Pro	Gly	Asp	Gln	Leu	Asp	Gly	Asp	Tyr
			100					105					110		
Val	Asn	Ala	Val	Thr	Arg	Asp	Gly	Phe	Lys	Ile	Ala	His	Asp	Ile	Ser
		115					120					125			
Ser	Tyr	Ser	Phe	Val	Ala	Met	Ala	Lys	Ser	Cys	Arg	Ala	Met	Leu	Asn
	130					135					140				
Pro	Gly	Ala	Ala	Leu	Leu	Thr	Leu	Ser	Tyr	Leu	Gly	Ala	Glu	Arg	Ala
145				150						155					160
Ile	Pro	Asn	Tyr	Asn	Val	Met	Gly	Leu	Ala	Lys	Ala	Ser	Leu	Glu	Ala
			165					170						175	
Asn	Val	Arg	Tyr	Met	Ala	Asn	Ala	Met	Gly	Pro	Glu	Gly	Val	Arg	Val
		180						185					190		
Asn	Ala	Ile	Ser	Ala	Gly	Pro	Ile	Arg	Thr	Leu	Ala	Ala	Ser	Gly	Ile
		195					200					205			
Lys	Asp	Phe	Arg	Lys	Met	Leu	Ala	His	Cys	Glu	Ala	Val	Thr	Pro	Ile
	210				215						220				
Arg	Arg	Thr	Val	Thr	Ile	Glu	Asp	Val	Gly	Asn	Ser	Ala	Ala	Phe	Leu
225				230						235					240
Cys	Ser	Asp	Leu	Ser	Ala	Gly	Ile	Ser	Gly	Glu	Val	Val	His	Val	Asp
			245					250						255	
Gly	Gly	Phe	Asn	Ile	Ala	Ala	Met	Asn	Glu	Leu	Glu	Ile	Lys		
			260					265					270		

<210> 6879

<211> 647

<212> PRT

<213> Enterobacter cloacae

<400> 6879

Asn	Ile	Met	Phe	Gln	Asp	Asn	Pro	Leu	Leu	Ala	Gln	Leu	Lys	Gln	Gln
1				5				10					15		
Leu	His	Ser	Gln	Thr	Pro	Arg	Ala	Glu	Gly	Val	Val	Lys	Ala	Thr	Glu
			20					25				30			
Lys	Gly	Phe	Gly	Phe	Leu	Glu	Val	Asp	Gly	Gln	Lys	Ser	Tyr	Phe	Ile
	35						40				45				
Pro	Pro	Pro	Gln	Met	Lys	Lys	Val	Met	His	Gly	Asp	Arg	Ile	Ser	Ala
	50					55				60					
Val	Ile	His	Thr	Glu	Lys	Glu	Arg	Glu	Ser	Ala	Glu	Pro	Glu	Ala	Leu
65				70						75					80
Ile	Glu	Pro	Phe	Leu	Thr	Arg	Phe	Val	Gly	Lys	Val	His	Lys	Lys	Asp
			85					90						95	
Asp	Arg	Leu	Ser	Val	Val	Pro	Asp	His	Pro	Leu	Leu	Lys	Asp	Ala	Ile
		100						105					110		
Pro	Cys	Arg	Ala	Ala	Arg	Gly	Val	Glu	His	Asp	Phe	Val	Glu	Gly	Asp
		115					120					125			
Trp	Ala	Val	Ala	Glu	Met	Arg	Arg	His	Pro	Leu	Lys	Gly	Asp	Arg	Gly
	130					135					140				
Phe	Tyr	Ala	Glu	Leu	Thr	Gln	Tyr	Ile	Thr	Phe	Gly	Asp	Asp	His	Phe
145				150						155					160
Val	Pro	Trp	Trp	Val	Thr	Leu	Ala	Arg	His	Asn	Leu	Glu	Lys	Glu	Ala
			165					170						175	
Pro	Asp	Gly	Val	Ala	Thr	Glu	Met	Gln	Asp	Glu	Gly	Leu	Glu	Arg	Arg
		180						185					190		
Asp	Leu	Thr	Ala	Leu	Asp	Phe	Val	Thr	Ile	Asp	Ser	Ala	Ser	Thr	Glu
		195					200					205			
Asp	Met	Asp	Asp	Ala	Leu	Tyr	Ala	Glu	Glu	Thr	Ala	Asp	Gly	Lys	Leu
	210					215					220				
His	Leu	Thr	Val	Ala	Ile	Ala	Asp	Pro	Thr	Ala	Trp	Ile	Val	Glu	Gly
225				230						235					240
Ser	Lys	Leu	Asp	Glu	Met	Ala	Lys	Val	Arg	Ser	Phe	Thr	Asn	Tyr	Leu
			245					250						255	

Pro Gly Phe Asn Ile Pro Met Leu Pro Arg Glu Leu Ser Asp Asp Leu
 260 265 270
 Cys Ser Leu Arg Ala His Glu Val Arg Pro Val Leu Ala Cys Arg Met
 275 280 285
 Thr Ile Ala Ala Asp Gly Thr Ile Glu Glu Asp Ile Glu Phe Phe Ala
 290 295 300
 Ala Thr Ile Glu Ser Lys Ala Lys Leu Ala Tyr Asp Asp Val Ser Asp
 305 310 315 320
 Trp Leu Glu Asn Thr Gly Asn Trp Lys Pro Glu Ser Asp Asn Ile Ala
 325 330 335
 Ala Gln Ile Arg Leu Leu His Arg Val Cys Leu Ser Arg Ser Glu Trp
 340 345 350
 Arg Gln Thr His Ala Leu Val Phe Lys Asp Arg Pro Asp Tyr Arg Phe
 355 360 365
 Val Leu Gly Glu Lys Gly Glu Val Leu Asn Ile Val Ala Glu Pro Arg
 370 375 380
 Arg Ile Ala Asn Arg Ile Val Glu Glu Ala Met Ile Ser Ala Asn Ile
 385 390 395 400
 Cys Ala Ala Arg Val Leu Arg Asp Lys Leu Gly Phe Gly Ile Tyr Asn
 405 410 415
 Val His Thr Gly Phe Asp Pro Ala Asn Thr Glu Ala Leu Ala Ala Leu
 420 425 430
 Leu Lys Thr His Asp Val His Val Asp Pro Glu Glu Val Leu Thr Leu
 435 440 445
 Gln Gly Phe Cys Lys Leu Arg Arg Glu Leu Asp Ala Gln Pro Ser Gly
 450 455 460
 Phe Leu Asp Ser Arg Ile Arg Arg Phe Gln Ser Phe Ala Glu Ile Ser
 465 470 475 480
 Thr Glu Pro Gly Pro His Phe Gly Leu Gly Leu Glu Ala Tyr Ala Thr
 485 490 495
 Trp Thr Ser Pro Ile Arg Lys Tyr Gly Asp Met Val Asn His Arg Leu
 500 505 510
 Leu Lys Ala Ile Ile Lys Gly Glu Ser Val Ala Arg Pro Gln Asp Gly
 515 520 525
 Thr Thr Leu Gln Met Ala Glu Arg Arg Arg Leu Asn Arg Met Ala Glu
 530 535 540
 Arg Asp Val Gly Asp Trp Leu Tyr Ala Arg Phe Leu Asn Asp Lys Ala
 545 550 555 560
 Gly Thr Asp Thr Arg Phe Pro Ala Glu Ile Ile Asp Ile Ser Arg Gly
 565 570 575
 Gly Met Arg Val Arg Leu Val Asp Asn Gly Ala Val Ala Phe Ile Pro
 580 585 590
 Ala Pro Phe Leu His Ala Val Arg Asp Glu Leu Val Cys Ser Gln Glu
 595 600 605
 Asn Gly Thr Val Gln Ile Lys Gly Glu Thr Val Tyr Lys Val Thr Asp
 610 615 620
 Val Ile Asp Val Thr Ile Ala Glu Val Arg Met Glu Thr Arg Ser Ile
 625 630 635 640
 Ile Ala Arg Pro Val Ala
 645

<210> 6880

<211> 675

<212> PRT

<213> Enterobacter cloacae

<400> 6880

Phe Val Arg Tyr Ser Ala Ala Ala Gly Glu Asn Val Met Asp Asp Leu
 1 5 10 15
 Glu Gln Asn Leu Leu Phe Arg Tyr Met Gly Thr His Ser Pro Trp Trp
 20 25 30

Arg	Leu	Thr	Ala	Asp	Ser	Asn	Ala	Leu	His	Leu	Ala	Ala	Ser	Glu	Ser
		35					40					45			
Ala	Asp	Ile	Ile	Gln	Val	Val	Ala	Leu	Asp	Asp	Glu	Gln	Ala	Ala	Leu
	50					55					60				
Ile	Arg	Gln	Leu	Thr	Val	Ile	Thr	Ser	Ser	Ile	Ala	Met	Thr	Leu	Pro
65				70					75						80
Leu	Tyr	Gly	Val	Asp	Val	Pro	Val	His	Leu	Val	Gly	Arg	Lys	Ile	Asn
				85				90						95	
Lys	Asn	Glu	Trp	Ala	Gly	Thr	Ala	Ser	Ala	Trp	Asn	Asp	Thr	Pro	Ser
		100					105					110			
Val	Ala	Arg	Asp	Leu	Ala	Gln	Gly	Leu	Ser	Phe	Ala	Glu	Gln	Val	Val
	115						120				125				
Ser	Glu	Ala	Asn	Ser	Val	Ile	Val	Ile	Leu	Asp	Gln	Asn	Gly	Asn	Ile
	130					135					140				
Gln	Arg	Phe	Asn	Arg	Leu	Ser	Glu	Glu	Tyr	Thr	Gly	Leu	Lys	Glu	Gln
145				150					155						160
Glu	Val	Ile	Gly	Gln	Asn	Val	Phe	Lys	Leu	Phe	Met	Ser	Arg	Ser	Glu
				165				170						175	
Ala	Ala	Ala	Ser	Lys	Arg	Asn	Ile	Thr	Gly	Phe	Phe	Arg	Asn	Gly	Ser
		180					185					190			
Ser	Tyr	Glu	Val	Glu	Arg	Trp	Ile	Lys	Thr	Arg	Lys	Gly	Gln	Arg	Leu
	195						200				205				
Phe	Leu	Phe	Arg	Asn	Lys	Phe	Val	His	Ser	Gly	Ser	Gly	Lys	Asn	Glu
	210					215					220				
Ile	Phe	Leu	Ile	Cys	Ser	Gly	Thr	Asp	Ile	Thr	Glu	Glu	Arg	Arg	Ala
225				230					235						240
Gln	Glu	Arg	Leu	Arg	Val	Leu	Ala	Asn	Thr	Asp	Thr	Ile	Thr	Gly	Leu
				245					250					255	
Pro	Asn	Arg	Asn	Ala	Ile	His	Glu	Leu	Ile	Ser	Asp	Ala	Ile	Thr	Ala
			260				265						270		
Arg	Gly	Asp	Thr	Gln	Val	Gly	Val	Val	Tyr	Leu	Asp	Leu	Asp	Asn	Phe
		275					280				285				
Lys	Lys	Val	Asn	Asp	Ala	Tyr	Gly	His	Met	Phe	Gly	Asp	Gln	Leu	Leu
	290					295				300					
Gln	Ala	Val	Ala	Leu	Ala	Ile	Leu	Ser	Cys	Leu	Asp	Glu	Gly	Gln	Thr
305				310						315					320
Leu	Ala	Arg	Leu	Gly	Asp	Glu	Phe	Ile	Val	Met	Ala	Thr	Asp	Thr	
				325					330					335	
Ser	Gln	Gly	Ala	Leu	Glu	Ala	Met	Ala	Ser	Arg	Ile	Leu	Thr	Arg	Leu
			340					345					350		
Arg	Gln	Pro	Phe	Arg	Ile	Gly	Leu	Ile	Glu	Val	Tyr	Thr	Gly	Cys	Ser
		355					360					365			
Leu	Gly	Ile	Ala	Leu	Ala	Pro	Gln	His	Gly	Asn	Asp	Arg	Glu	Ser	Val
	370					375					380				
Ile	Arg	Asn	Ala	Asp	Thr	Ala	Met	Tyr	Thr	Ala	Lys	Glu	Asn	Gly	Arg
385				390						395					400
Gly	Lys	Phe	Cys	Val	Phe	Ser	Pro	Glu	Met	Asn	Gln	Arg	Val	Phe	Glu
				405					410					415	
Tyr	Leu	Trp	Leu	Asp	Thr	Asn	Leu	Arg	Lys	Ala	Leu	Asp	Asn	Asp	Gln
			420					425					430		
Leu	Leu	Ile	His	Tyr	Gln	Pro	Lys	Met	Thr	Trp	Arg	Gly	Glu	Val	Arg
		435					440					445			
Ser	Leu	Glu	Ala	Leu	Val	Arg	Trp	Gln	Ser	Pro	Glu	Arg	Gly	Leu	Ile
	450					455					460				
Pro	Pro	Met	Glu	Phe	Ile	Ser	Tyr	Ala	Glu	Glu	Ser	Gly	Leu	Ile	Val
465				470						475					480
Pro	Leu	Gly	Arg	Trp	Val	Met	Leu	Asp	Val	Val	Arg	Gln	Val	Ala	Lys
				485					490					495	
Trp	Arg	Asp	Lys	Gly	Ile	Asn	Met	Arg	Val	Ala	Val	Asn	Val	Ser	Ala
		500					505					510			
Arg	Gln	Leu	Ala	Asp	Gln	Thr	Ile	Phe	Ser	Asp	Leu	Lys	Gln	Ala	Leu

515 520 525
 Lys Asp Leu Asn Phe Glu Tyr Cys Pro Ile Asp Val Glu Leu Thr Glu
 530 535 540
 Ser Cys Leu Ile Glu Asn Glu Glu Leu Ala Leu Ser Val Ile Gln Gln
 545 550 555 560
 Phe Ser Arg Leu Gly Ala Gln Ile His Leu Asp Asp Phe Gly Thr Gly
 565 570 575
 Tyr Ser Ser Leu Ser Gln Leu Ala Arg Phe Pro Ile Asp Ala Ile Lys
 580 585 590
 Leu Asp Gln Ser Phe Val Arg Asp Ile His Lys Gln Ser Ile Ser Gln
 595 600 605
 Ser Leu Val Arg Ala Ile Val Ala Val Ala Gln Ala Leu Asn Leu Gln
 610 615 620
 Val Ile Ala Glu Gly Val Glu Ser Ala Lys Glu Asp Ala Phe Leu Thr
 625 630 635 640
 Lys Asn Gly Val Asn Glu Arg Gln Gly Tyr Leu Phe Ala Lys Pro Met
 645 650 655
 Pro Ala Ala Ala Phe Glu Arg Trp Leu Lys Arg Tyr Gln Thr Arg Asn
 660 665 670
 Val Arg
 675

<210> 6881
 <211> 81
 <212> PRT
 <213> Enterobacter cloacae

<400> 6881
 Ile Asp Asn Ser Gly Glu Ser Ile Met Thr Phe Thr Ser Lys Lys Leu
 1 5 10 15
 Ala Ala Ala Val Val Ala Ile Thr Val Ala Met Ser Leu Ser Ala Cys
 20 25 30
 Ser Asn Trp Ser Lys Arg Asp Arg Asn Thr Ala Ile Gly Ala Gly Ala
 35 40 45
 Gly Ala Leu Gly Gly Ala Val Leu Thr Asp Asp Ser Thr Leu Gly Thr
 50 55 60
 Leu Gly Gly Ala Ala Val Gly Gly Ile Ile Gly His Gln Val Gly Lys
 65 70 75 80

<210> 6882
 <211> 117
 <212> PRT
 <213> Enterobacter cloacae

<400> 6882
 Cys Ile Thr Glu Lys Gly Gly Ile Met Arg Asp Ala Asn Ser Arg Leu
 1 5 10 15
 Val Tyr Ser Thr Asp Thr Gly Arg Ile Glu Glu Pro Lys Glu Lys Ala
 20 25 30
 Glu Arg Pro Lys Gly Asp Gly Ile Val Arg Ile Gln Arg Gln Thr Ser
 35 40 45
 Gly Arg Lys Gly Lys Gly Val Cys Leu Val Thr Gly Ile Asp Leu Asp
 50 55 60
 Asp Ala Asp Leu Val Lys Leu Ala Ala Glu Leu Lys Lys Lys Cys Gly
 65 70 75 80
 Cys Gly Gly Ala Val Lys Asp Gly Ile Ile Glu Ile Gln Gly Asp Lys
 85 90 95
 Arg Asp Leu Ile Lys Thr Leu Leu Glu Ala Lys Gly Met Lys Val Lys
 100 105 110

Leu Ala Gly Gly
115

<210> 6883

<211> 290

<212> PRT

<213> Enterobacter cloacae

<400> 6883

Gly Gly Gly Arg Leu Phe Phe Ile Pro Ala Val Lys Thr Phe Asp Ser
1 5 10 15
Val His Leu Pro Arg Gly Gln Val Glu Cys Thr Pro Phe Ile Cys Ser
20 25 30
Ala Pro Leu Arg Ala His Arg Arg Lys Gly Leu Val Met Thr Ser Val
35 40 45
Thr Ser Ser Thr Ser Arg Val Val Thr Asp Ser Pro Val Val Val Ala
50 55 60
Leu Asp Tyr Asn Asn Arg Asp Ala Ala Leu Ala Phe Val Asp Gly Ile
65 70 75 80
Asp Pro Arg Asp Cys Arg Leu Lys Val Gly Lys Glu Met Phe Thr Leu
85 90 95
Phe Gly Pro Gln Ile Val Arg Asp Leu His Gln Arg Gly Phe Asp Val
100 105 110
Phe Leu Asp Leu Lys Phe His Asp Ile Pro Asn Thr Thr Ala His Ala
115 120 125
Val Ala Ala Ala Ala Glu Leu Gly Val Trp Met Val Asn Val His Ala
130 135 140
Ser Gly Gly Ala Arg Met Met Thr Ala Ala Arg Glu Ala Leu Val Pro
145 150 155 160
Phe Gly Asn Asp Ala Pro Leu Leu Ile Ala Val Thr Val Leu Thr Ser
165 170 175
Met Asp Glu Ser Asp Leu Arg Asp Leu Gly Val Thr Leu Ser Pro Ala
180 185 190
Glu His Ala Glu Arg Leu Ala Arg Leu Thr Gln Gln Cys Gly Leu Asp
195 200 205
Gly Val Phe Cys Ser Ala Gln Glu Ala Val Arg Phe Lys Ser Glu Leu
210 215 220
Gly Arg Asp Phe Lys Leu Val Thr Pro Gly Ile Arg Pro Ala Gly Ser
225 230 235 240
Glu Ser Gly Asp Gln Arg Arg Ile Met Thr Pro Glu Gln Ala Leu Ser
245 250 255
Ala Gly Val Asp Tyr Met Val Ile Gly Arg Pro Val Thr Gln Ser Ala
260 265 270
His Pro Ala Glu Thr Leu Lys Ala Ile Asn Ala Ser Leu Lys Lys Gly
275 280 285
Ala
290

<210> 6884

<211> 469

<212> PRT

<213> Enterobacter cloacae

<400> 6884

Asn Cys Ala Arg Val Asp Asn Gly Tyr Ala Ile Leu Arg Leu Tyr Leu
1 5 10 15
Cys Ala Val Arg Arg Lys Met Lys Asn Ile Thr Leu Ala Glu Lys Leu
20 25 30
Ile Met Leu Ser Gly Ala Ala Leu Phe Ala Leu Ile Ile Ala Val Asn
35 40 45
Ser Phe Cys Val Asn Asp Asn Pro Gly Phe Arg Val Pro Met Thr Thr

1				5				10				15			
Thr	Val	Ile	Asn	Gln	Thr	Thr	Cys	Thr	Leu	Phe	Thr	Asp	Ala	Glu	Arg
			20					25					30		
Phe	Thr	Gln	Leu	Ala	Ala	Tyr	Tyr	Glu	Ala	Glu	Arg	Arg	Thr	Val	Trp
		35					40					45			
Met	Met	Leu	Arg	Ala	Thr	Pro	Arg	Pro	Cys	Phe	Asn	His	Ala	Leu	Ile
	50					55					60				
Glu	Glu	Ile	Met	Asn	Leu	Ser	Trp	Leu	Val	Arg	Gln	Ser	Gly	Phe	Val
65					70					75					80
Val	Asp	Phe	Trp	Val	Thr	Gly	Ser	Leu	Val	Pro	Asp	Ile	Tyr	Asn	Thr
				85					90					95	
Gly	Gly	Asp	Leu	Gln	Phe	Phe	Val	Glu	Cys	Ile	Lys	Asn	Asn	Arg	Arg
			100					105					110		
Glu	Ala	Leu	Arg	Ala	Tyr	Ala	Arg	Ala	Cys	Val	Asp	Cys	Val	His	Ala
		115					120					125			
Ala	Ser	Arg	Gly	Phe	Asp	Thr	Gly	Ala	Val	Thr	Leu	Ala	Met	Val	Glu
	130					135					140				
Gly	Ser	Ala	Leu	Gly	Gly	Gly	Phe	Glu	Ala	Ala	Leu	Ala	His	His	Phe
145					150					155					160
Ile	Leu	Ala	Gln	Arg	Asp	Ala	Arg	Leu	Gly	Phe	Pro	Glu	Ile	Ala	Phe
			165					170						175	
Asn	Leu	Phe	Pro	Gly	Met	Gly	Gly	Tyr	Ser	Leu	Val	Ala	Arg	Arg	Ala
			180					185					190		
Gly	Met	Lys	Met	Ala	Glu	Ala	Leu	Ile	Tyr	Lys	Gly	Glu	Thr	His	Thr
		195					200					205			
Ala	Glu	Trp	Tyr	Glu	Gln	His	Gly	Leu	Val	Asp	Leu	Leu	Phe	Glu	Pro
	210					215					220				
Leu	Gln	Ser	Tyr	Val	Ser	Val	Arg	Thr	Phe	Ile	Asp	Thr	Leu	Gln	Pro
225					230					235					240
Lys	Leu	Asn	Gly	Val	Arg	Ala	Met	Leu	Arg	Ala	Arg	Thr	Arg	Val	Leu
				245					250					255	
Pro	Leu	Pro	Arg	Ser	Glu	Leu	Met	Asp	Ile	Thr	Glu	Asp	Trp	Val	Asp
			260					265					270		
Ala	Ala	Phe	Cys	Leu	Glu	Pro	Lys	Asp	Ile	Ala	Tyr	Met	Glu	Arg	Leu
		275					280					285			
Val	Met	Leu	Gln	Asn	Arg	His	Gln	Ala	Thr	Gly	Leu	Arg	Lys	Ala	Ser
	290					295					300				

305

<210> 6886

<211> 441

<212> PRT

<213> Enterobacter cloacae

<400> 6886

Asn	Ser	Leu	Leu	Asn	Leu	Phe	Leu	Arg	Thr	Arg	Asn	Asp	Ala	Met	Ser
1				5					10					15	
Lys	Ser	Glu	Asn	Leu	Tyr	Ser	Ala	Ala	Arg	Glu	Leu	Ile	Pro	Gly	Gly
			20					25					30		
Val	Asn	Ser	Pro	Val	Arg	Ala	Phe	Thr	Gly	Val	Gly	Gly	Thr	Pro	Leu
		35					40					45			
Phe	Ile	Glu	Arg	Ala	Asp	Gly	Ala	Tyr	Leu	Tyr	Asp	Val	Asp	Gly	Lys
	50					55					60				
Ala	Tyr	Val	Asp	Tyr	Val	Gly	Ser	Trp	Gly	Pro	Met	Val	Leu	Gly	His
65					70					75					80
Asn	His	Pro	Ala	Ile	Arg	Asn	Ala	Val	Ile	Glu	Ala	Ala	Gln	Arg	Gly
				85					90					95	
Leu	Ser	Phe	Gly	Ala	Pro	Thr	Glu	Met	Glu	Val	Lys	Met	Ala	Glu	Leu
			100					105					110		
Val	Thr	Glu	Leu	Val	Pro	Thr	Met	Asp	Met	Val	Arg	Met	Val	Asn	Ser

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<210> 6887
<211> 195
<212> PRT
<213> Enterobacter cloacae
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Met 1	Leu	Tyr	Gln	Ser 5	Phe	Pro	Gln	Ala	Glu 10	Arg	Ala	Val	Pro	Ala	Gln
Ala	Ala	Tyr	Met 20	Thr	Leu	Trp	Thr	Met 25	Gln	Gln	Val	Val	Gln	Arg	Gly
Thr	Gly	Arg 35	Gln	Leu	Gly	Ala	Lys 40	Tyr	Pro	Gly	Leu	His 45	Leu	Ala	Gly
Lys	Thr 50	Gly	Thr	Thr	Asn	Asn 55	Asn	Val	Asp	Thr	Trp 60	Phe	Ala	Gly	Ile
Asp 65	Gly	Arg	Glu	Val	Val 70	Ile	Thr	Trp	Val	Gly 75	Arg	Asp	Asn	Asn	Gln
Pro	Thr	Lys	Leu 85	Tyr	Gly	Ala	Ser	Gly	Ala 90	Met	Ser	Ile	Tyr	Gln	Arg
Tyr	Leu	Ala	Asn	Gln	Ser	Pro	Val	Pro	Leu	Asn	Leu	Val	Ala	Pro	Glu

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<210> 6888
<211> 778
<212> PRT
<213> Enterobacter cloacae
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<400>	6888														
Thr 1	Leu	Asn	Ser	Cys 5	Arg	Ala	Ala	Tyr	Arg 10	Leu	Leu	Cys	Arg	Gln 15	Arg
Phe	Ala	Tyr	Tyr 20	Ser	Ala	Val	Ile	Ile 25	Ile	Ile	Leu	Val	Tyr 30	Val	Ile
Ile	His 35	Leu	Phe	His	Gln	Arg	Ser 40	Ile	Met	Ala	Leu	Ser 45	Asn	Thr	Ala
Gln	Pro 50	Ile	Asn	Thr	Ser	Leu 55	Arg	Lys	Leu	Ala	Val 60	Val	Val	Ala	Thr
Ala 65	Val	Ala	Gly	Met	Ser 70	Ala	Tyr	Ala	Gln	Ala	Ala 75	Glu	Thr	Pro	Lys 80
Lys	Glu	Glu	Thr 85	Ile	Thr	Val	Thr	Ala	Ala 90	Pro	Ala	Ala	Gln 95	Glu	Ser
Ala	Trp	Gly	Pro 100	Ala	Pro	Thr	Ile	Ala	Ala 105	Lys	Arg	Thr	Ala 110	Thr	Ala
Thr	Lys 115	Thr	Asp	Thr	Pro	Ile	Glu 120	Lys	Thr	Pro	Gln	Ser 125	Ile	Ser	Val
Val	Thr 130	Arg	Glu	Glu	Met	Asp 135	Met	Lys	Gln	Pro	Gly 140	Thr	Val	Lys	Gln
Ala 145	Leu	Ala	Tyr	Thr	Pro 150	Ser	Val	Phe	Ala	Thr 155	Arg	Gly	Ala	Ser	Thr 160
Thr	Tyr	Asp	Val 165	Val	Ser	Ile	Arg	Gly	Phe 170	Thr	Thr	Ser	Ser 175	Thr	Val
Asn	Thr 180	Asn	Gln	Tyr	Leu	Asp	Gly 185	Met	Lys	Leu	Gln	Gly 190	Asp	Asn	Tyr
Ser	Glu 195	Ala	Ser	Met	Asp	Pro	Tyr 200	Phe	Leu	Glu	Arg	Val 205	Glu	Leu	Leu
Arg	Gly 210	Pro	Thr	Ser	Val	Leu 215	Tyr	Gly	Lys	Ser	His 220	Pro	Gly	Gly	Val
Val 225	Ser	Met	Val	Ser	Lys 230	Arg	Pro	Thr	Thr	Glu 235	Pro	Leu	Lys	Glu	Ile 240
Gln	Phe	Lys	Met 245	Gly	Thr	Asp	Asn	Leu	Trp 250	Gln	Thr	Gly	Phe 255	Asp	Phe
Ser	Asp 260	Ala	Ile	Asp	Asp	Asp	Gly 265	Val	Trp	Ser	Tyr	Arg	Leu 270	Thr	Gly
Leu	Gly 275	Arg	Ser	Glu	Asn	Ala	Gln 280	Gln	Glu	Met	Val	Lys 285	Ser	Thr	Arg
Tyr	Ala 290	Ile	Ala	Pro	Ser	Phe 295	Ser	Trp	Arg	Pro	Asp 300	Asp	Lys	Thr	Asp
Phe 305	Thr	Phe	Leu	Ser	Asn 310	Phe	Gln	Ser	Asp	Pro	Asp 315	Ala	Gly	Tyr	Tyr 320
Gly	Trp	Leu	Pro	Arg	Glu	Gly	Thr	Val	Val	Pro	Tyr	Tyr	Asp	Ala	Asn


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<210> 6889
<211> 714
<212> PRT
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<213> Enterobacter cloacae

<400> 6889

Ala Arg Asp Ala Asn Pro Asp Gly Asp Ser Ala Leu Ala Gly Asn Ala
 1 5 10 15
 Val Arg Pro Arg Ala Ala Leu Pro Ala Arg Ala Ser Gly Met Val Leu
 20 25 30
 Arg Arg Asp Ala Val Gly His Ala Phe Cys Pro Arg Ala Gly Gln Cys
 35 40 45
 Thr Gly Arg Gln Gly Met Ser Thr Arg Met Ala Arg Phe Pro Met Leu
 50 55 60
 Leu Leu Ala Ile Ile Phe Leu Ala Ala Leu Thr Gly Phe Asn
 65 70 75 80
 Leu Thr Thr Ala Leu Pro Arg Glu Gln Trp Ala Ala Ala Phe Ala Ala
 85 90 95
 Pro Asp Ile Asp Asn Ile Gln Gln Met Leu Phe His Tyr Ser Leu Leu
 100 105 110
 Pro Arg Leu Ala Ile Ser Leu Leu Val Gly Ala Gly Leu Gly Leu Val
 115 120 125
 Gly Val Leu Phe Gln Gln Val Leu Arg Asn Pro Leu Ala Glu Pro Thr
 130 135 140
 Thr Leu Gly Val Ala Thr Gly Ala Gln Leu Gly Ile Thr Ile Thr Thr
 145 150 155 160
 Leu Trp Thr Leu Pro Gly Ala Leu Thr Ser Gln Phe Ala Ala Leu Ala
 165 170 175
 Gly Ala Cys Val Val Gly Ala Leu Val Phe Gly Val Ala Trp Gly Lys
 180 185 190
 Arg Leu Ser Pro Val Thr Leu Ile Leu Ala Gly Leu Val Val Ser Leu
 195 200 205
 Tyr Cys Gly Ala Ile Asn Gln Leu Leu Val Leu Phe His His Asp Gln
 210 215 220
 Leu Gln Ser Met Phe Met Trp Ser Thr Gly Thr Leu Thr Gln Thr Asp
 225 230 235 240
 Trp Ser Ile Val Gln Arg Leu Trp Pro Gln Leu Phe Gly Gly Val Val
 245 250 255
 Leu Thr Leu Leu Leu Leu Arg Pro Leu Thr Leu Met Gly Leu Asp Asp
 260 265 270
 Gly Val Ala Arg Asn Leu Gly Leu Ala Leu Ser Leu Ala Arg Leu Ala
 275 280 285
 Ala Leu Thr Leu Ala Ile Val Leu Ser Ala Leu Leu Val Asn Ala Val
 290 295 300
 Gly Ile Ile Gly Phe Ile Gly Leu Phe Ala Pro Leu Leu Ala Lys Met
 305 310 315 320
 Leu Gly Ala Arg Arg Leu Leu Ala Arg Leu Met Leu Ala Pro Leu Ile
 325 330 335
 Gly Ala Leu Ile Leu Trp Leu Ser Asp Gln Leu Ile Leu Trp Leu Thr
 340 345 350
 Arg Val Trp Met Glu Val Ser Thr Gly Ser Val Thr Ala Leu Ile Gly
 355 360 365
 Ala Pro Leu Leu Leu Trp Leu Leu Pro Arg Leu Arg Ser Ile Ser Ala
 370 375 380
 Pro Ala Met Asp Ala Gly Asp Lys Val His Ala Glu Arg Gln Ser Val
 385 390 395 400
 Val Trp Phe Ser Leu Ala Gly Leu Ala Val Leu Val Ile Ala Ser Phe
 405 410 415
 Ala Ala Leu Ser Leu Gly Arg Asp Ala Thr Gly Trp His Trp Ala Thr
 420 425 430
 Gly Asp Leu Leu His Glu Leu Met Gln Trp Arg Trp Pro Arg Ile Phe
 435 440 445
 Ser Ala Leu Ile Ala Gly Val Met Leu Ala Val Ala Gly Cys Ile Ile
 450 455 460

Gln Arg Leu Thr Gly Asn Pro Met Ala Ser Pro Glu Val Leu Gly Ile
 465 470 475 480
 Ser Ser Gly Ala Ala Phe Gly Val Val Leu Met Leu Phe Leu Val Pro
 485 490 495
 Gly Asn Ala Phe Gly Trp Leu Met Pro Ala Gly Ser Ile Gly Ala Ala
 500 505 510
 Val Thr Leu Met Ile Ile Leu Ile Ala Ser Gly Arg Gly Gly Phe Ser
 515 520 525
 Pro His Arg Met Leu Leu Ala Gly Met Ala Leu Ser Thr Ala Phe Thr
 530 535 540
 Met Leu Leu Met Met Leu Gln Ala Ser Gly Asp Pro Arg Met Ala Gln
 545 550 555 560
 Ile Leu Thr Trp Ile Ser Gly Ser Thr Tyr Asn Ala Thr Gly Ser Gln
 565 570 575
 Val Val His Thr Gly Ile Val Met Ile Val Leu Leu Ala Ile Val Pro
 580 585 590
 Leu Cys Arg Arg Trp Met Thr Ile Leu Pro Leu Gly Gly Asp Thr Ala
 595 600 605
 Arg Ala Val Gly Leu Ala Leu Thr Pro Thr Arg Ile Ala Leu Leu Leu
 610 615 620
 Leu Ala Ala Cys Leu Thr Ala Thr Ala Thr Met Thr Ile Gly Pro Leu
 625 630 635 640
 Ser Phe Val Gly Leu Met Ala Pro His Ile Ala Arg Met Met Gly Phe
 645 650 655
 Arg Arg Thr Leu Pro His Ile Ala Ile Ser Ala Leu Thr Gly Gly Ala
 660 665 670
 Ile Leu Val Phe Ala Asp Trp Cys Gly Arg Met Val Leu Phe Pro Tyr
 675 680 685
 Gln Ile Pro Ala Gly Leu Leu Ser Thr Phe Ile Gly Ala Pro Tyr Phe
 690 695 700
 Ile Tyr Leu Leu Arg Lys Gln Ser Arg
 705 710

<210> 6890

<211> 275

<212> PRT

<213> Enterobacter cloacae

<400> 6890

Asn Pro Cys Gly His Leu Tyr Asp Glu Thr Glu Gln Val Met Asn Glu
 1 5 10 15
 Asn Thr Pro Ser Phe Glu Gln Gln Gln Phe Thr Arg Ala Lys Arg Arg
 20 25 30
 Val Ser Ile Arg Arg Leu Leu Asn Arg Asp Lys Thr Pro Leu Ala Ile
 35 40 45
 Leu Leu Ala Ala Ala Val Val Gly Thr Leu Ala Gly Leu Val Gly Val
 50 55 60
 Ala Phe Glu Lys Ala Val Asn Ala Val Leu Asn Trp Arg Ile Gly Thr
 65 70 75 80
 Val Ala Ser Phe Ala Asp Arg Glu Trp Leu Val Trp Val Trp Ala Phe
 85 90 95
 Gly Leu Ser Ala Leu Phe Ala Met Val Gly Tyr Phe Leu Val Arg Lys
 100 105 110
 Phe Ala Pro Glu Ala Gly Gly Ser Gly Ile Pro Glu Ile Glu Gly Ala
 115 120 125
 Leu Glu Glu Leu Arg Pro Val Arg Trp Trp Arg Val Leu Pro Val Lys
 130 135 140
 Phe Ile Gly Gly Met Gly Thr Leu Gly Ala Gly Met Val Leu Gly Arg
 145 150 155 160
 Glu Gly Pro Thr Val Gln Leu Gly Gly Asn Val Gly Arg Met Val Gly
 165 170 175

Asp Leu Phe Arg Met Arg Ser Ala Glu Ala Arg His Thr Leu Leu Ala
 180 185 190
 Thr Gly Ala Ala Ala Gly Leu Ser Ala Ala Phe Asn Ala Pro Leu Ala
 195 200 205
 Gly Ile Leu Phe Ile Ile Glu Glu Met Arg Ala Gln Phe Arg Tyr Asn
 210 215 220
 Leu Ile Ser Ile Lys Ala Val Phe Asn Gly Val Ile Met Ser Ser Ile
 225 230 235 240
 Val Phe Arg Val Phe Asn Gly Glu Gly Ala Val Ile Glu Val Gly Lys
 245 250 255
 Leu Thr Asn Ala Pro Val Ile Leu His Tyr Asp Ala Ala Asp Ala Thr
 260 265 270
 Tyr Pro His
 275

<210> 6891

<211> 325

<212> PRT

<213> Enterobacter cloacae

<400> 6891

Arg Asn Ala Gly Thr Tyr Leu Arg Tyr Ser Tyr Gly His Pro Ala Ser
 1 5 10 15
 Pro Gly Arg Gly Cys Thr Arg Glu Leu Cys Leu Leu Met Leu Asp Ser
 20 25 30
 Thr Phe Ile Ser Arg Arg Arg Leu Leu Thr Ala Met Ala Leu Ser Pro
 35 40 45
 Leu Leu Leu Lys Met Gly Pro Ala Arg Ala Ala Ile Asp Pro His
 50 55 60
 Arg Ile Val Ala Leu Glu Trp Leu Pro Val Glu Leu Met Met Ala Leu
 65 70 75 80
 Gly Val Thr Pro Tyr Gly Val Ala Asp Ile Pro Asn Tyr Thr Leu Trp
 85 90 95
 Val Asn Glu Pro Lys Leu Pro Asp Ser Val Ile Asp Ile Gly Leu Arg
 100 105 110
 Thr Glu Pro Asn Leu Glu Leu Leu Thr Gln Met Lys Pro Ser Tyr Leu
 115 120 125
 Phe Trp Ser Ala Gly Tyr Gly Pro Ser Glu Glu Thr Met Ala Lys Ile
 130 135 140
 Ala Pro Gly Arg Gly Phe Ser Phe Ser Asp Gly Lys Lys Pro Leu Thr
 145 150 155 160
 Met Ala Lys Asn Ser Ile His Glu Met Ala Gln Phe Leu Asn Arg Glu
 165 170 175
 Ala Glu Ala Lys Lys His Leu Asp Glu Phe Asp Ala Leu Ile Asp Ser
 180 185 190
 Leu Lys Pro Arg Phe Ala His Arg Gly Asp Arg Pro Leu Leu Met Val
 195 200 205
 Thr Leu Leu Asp Ala Arg His Met Leu Val Phe Gly Asn Asn Cys Leu
 210 215 220
 Phe Gln Glu Val Leu Asp Ser Phe Gly Ile Arg Asn Ala Trp Glu Gly
 225 230 235 240
 Glu Met Thr Phe Trp Gly Ser Thr Ala Val Gly Ile Asp Arg Leu Ala
 245 250 255
 Ala Phe Arg Asp Val Asp Val Leu Cys Phe Asp His Gly Asn Glu Arg
 260 265 270
 Glu Met Gln Thr Leu Met Ala Thr Pro Leu Trp Gln Ala Met Pro Phe
 275 280 285
 Val Arg Glu Gln Arg Phe Leu Arg Ala Pro Ala Val Trp Phe Tyr Gly
 290 295 300
 Ala Thr Leu Ser Ala Met His Phe Ala Arg Val Leu Asp Asn Ala Leu
 305 310 315 320

Gly Gly Lys Ala

325

<210> 6892

<211> 311

<212> PRT

<213> Enterobacter cloacae

<400> 6892

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Ile Arg Leu Gln Leu Leu Gln Arg Val Cys Met Leu Leu Gly Ser Arg
1      5      10      15
Thr Pro Gly Cys His Gly Asp Leu Pro Leu Leu Thr Ser Leu Trp
      20      25      30
Ala Arg Phe Ala Val Pro Phe Leu Phe Lys Leu Ala Asp Met Gln Asp
      35      40      45
Asn Lys Thr Gln Ser Asp Ser Thr Phe Thr Leu Asn Asn Leu Ser Phe
      50      55      60
Arg Val Pro Gly Arg Thr Leu Leu His Pro Leu Ser Leu Thr Phe Pro
65      70      75      80
Ala Gly Lys Val Thr Gly Leu Ile Gly His Asn Gly Ser Gly Lys Ser
      85      90      95
Thr Leu Leu Lys Met Leu Gly Arg His Gln Pro Pro Ser Glu Gly Asp
      100      105      110
Ile Leu Leu Asp Asp Gln Pro Leu Ala Ser Trp Ser Ser Lys Ala Phe
      115      120      125
Ala Arg Lys Val Ala Tyr Leu Pro Gln Gln Leu Pro Gln Ala Glu Gly
130      135      140
Met Thr Val Arg Glu Leu Val Ala Ile Gly Arg Tyr Pro Trp His Gly
145      150      155      160
Ala Leu Gly Arg Phe Gly Val Ala Asp Arg Glu Lys Val Glu Glu Ala
      165      170      175
Ile Ala Leu Val Gly Leu Lys Pro Leu Ala His Arg Leu Val Asp Ser
      180      185      190
Leu Ser Gly Gly Glu Arg Gln Arg Ala Trp Ile Ala Met Leu Val Ala
      195      200      205
Gln Asp Ser Arg Cys Leu Leu Leu Asp Glu Pro Thr Ser Ala Leu Asp
210      215      220
Ile Ala His Gln Val Asp Val Leu Ala Leu Val His Arg Leu Ser Gln
225      230      235      240
Gln Arg Gly Leu Thr Val Ile Ala Val Leu His Asp Ile Asn Met Ala
      245      250      255
Ala Arg Tyr Cys Asp Tyr Leu Val Ala Leu Arg Gly Gly Glu Met Ile
      260      265      270
Ala Gln Gly Thr Pro Ala Glu Leu Met Arg Ser Glu Thr Leu Glu His
      275      280      285
Ile Tyr Gly Ile Pro Met Gly Ile Leu Pro His Pro Ala Gly Ala Ala
290      295      300
Pro Val Ser Phe Val Tyr
305      310

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<210> 6893

<211> 833

<212> PRT

<213> Enterobacter cloacae

<400> 6893

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Ile Ile Ala Gly Gly Met Lys Lys Ile Ser Thr Gly Ala Asp Asn Gly
1      5      10      15
Gly Thr Asp Met Ser Gln Asp Pro Phe Gln Glu Arg Glu Ala Glu Lys
      20      25      30
Tyr Ala Asn Pro Ile Pro Ser Arg Glu Phe Ile Ile Glu His Leu Thr

```

[illegible]

Gly	Gly	Asn	Lys	Pro	Glu	Pro	Arg	Asp	Tyr	Ala	Glu	Leu	Leu	Glu	Ser
	530					535					540				
Ile	Ser	Asp	Arg	Pro	Asp	Ala	Glu	Met	Leu	Gln	Thr	Met	Leu	Leu	Arg
545					550					555					560
Ser	Met	Lys	Gln	Ala	Ile	Tyr	Asp	Pro	Glu	Asn	Arg	Gly	His	Phe	Gly
			565						570					575	
Leu	Ala	Leu	Gln	Ser	Tyr	Ala	His	Phe	Thr	Ser	Pro	Ile	Arg	Arg	Tyr
			580					585					590		
Pro	Asp	Leu	Ser	Leu	His	Arg	Ala	Ile	Lys	Tyr	Leu	Leu	Ala	His	Glu
		595					600					605			
Gln	Gly	His	Lys	Gly	Asn	Thr	Thr	Glu	Thr	Gly	Gly	Tyr	His	Tyr	Ser
	610					615					620				
Met	Glu	Glu	Met	Leu	Gln	Leu	Gly	Gln	His	Cys	Ser	Met	Thr	Glu	Arg
625					630					635					640
Arg	Ala	Asp	Glu	Ala	Thr	Arg	Asp	Val	Ala	Asp	Trp	Leu	Lys	Cys	Asp
			645						650					655	
Phe	Met	Leu	Asp	Gln	Val	Gly	Asn	Ile	Phe	Lys	Gly	Val	Ile	Ala	Ser
			660					665					670		
Val	Thr	Gly	Phe	Gly	Phe	Phe	Val	Arg	Leu	Asp	Glu	Leu	Phe	Ile	Asp
		675					680					685			
Gly	Leu	Val	His	Val	Ser	Ser	Leu	Asp	Asn	Asp	Tyr	Tyr	Arg	Phe	Asp
	690					695					700				
Gln	Val	Gly	Gln	Arg	Leu	Ile	Gly	Glu	Ser	Gly	Gly	Gln	Thr	Tyr	Arg
705					710					715					720
Leu	Gly	Asp	Arg	Val	Glu	Val	Lys	Val	Glu	Ala	Val	Asn	Met	Asp	Asp
			725						730					735	
Arg	Lys	Ile	Asp	Phe	Ser	Leu	Ile	Ser	Ser	Glu	Arg	Ala	Pro	Arg	Asn
			740					745					750		
Val	Gly	Lys	Thr	Glu	Arg	Glu	Lys	Ala	Lys	Lys	Gly	Gly	Asn	Gly	Lys
		755					760					765			
Ala	Gly	Gly	Lys	Arg	Arg	Gln	Ala	Gly	Lys	Arg	Val	Asn	Phe	Glu	Pro
	770					775					780				
Asp	Ser	Ala	Phe	Arg	Gly	Glu	Lys	Lys	Gln	Lys	Pro	Lys	Ala	Ala	Lys
785					790					795					800
Lys	Asp	Ala	Arg	Lys	Ala	Lys	Lys	Pro	Ser	Thr	Lys	Thr	Gln	Lys	Ile
			805						810					815	
Ala	Ala	Ala	Thr	Lys	Ala	Lys	Arg	Ala	Ala	Lys	Lys	Gln	Gln	Ala	Glu
			820					825					830		

<210> 6894

<211> 265

<212> PRT

<213> Enterobacter cloacae

<400> 6894

Phe	Pro	Leu	Thr	Leu	Thr	Leu	Ser	Pro	Thr	Gly	Glu	Gly	Lys	Tyr	Leu
1				5					10					15	
Leu	Arg	Glu	Pro	Ser	Met	Ser	Glu	Met	Ile	Tyr	Gly	Ile	His	Ala	Val
			20					25					30		
Gln	Ala	Leu	Leu	Glu	Arg	Ala	Pro	Glu	Arg	Phe	Gln	Glu	Val	Phe	Ile
		35					40					45			
Leu	Lys	Gly	Arg	Glu	Asp	Lys	Arg	Leu	Met	Pro	Leu	Ile	His	Ala	Leu
	50					55				60					
Glu	Ala	Gln	Gly	Val	Val	Ile	Gln	Leu	Ala	Asn	Arg	Gln	Tyr	Leu	Asp
65					70					75					80
Glu	Lys	Ser	Glu	Gly	Ala	Val	His	Gln	Gly	Ile	Ile	Ala	Arg	Val	Lys
			85					90						95	
Pro	Gly	Arg	Gln	Tyr	Gln	Glu	Asn	Asp	Leu	Pro	Asp	Leu	Ile	Ala	Glu
			100					105					110		

Leu Asp Asn Pro Phe Phe Leu Ile Leu Asp Gly Val Thr Asp Pro His
 115 120 125
 Asn Leu Gly Ala Cys Leu Arg Ser Ala Asp Ala Gly Val His Ala
 130 135 140
 Val Ile Val Pro Arg Asp Arg Ser Ala Gln Leu Asn Ala Thr Ala Lys
 145 150 155 160
 Lys Val Ala Cys Gly Ala Ala Glu Asn Val Pro Leu Ile Arg Val Thr
 165 170 175
 Asn Leu Ala Arg Thr Met Arg Leu Leu Gln Glu Glu Asn Ile Trp Ile
 180 185 190
 Val Gly Thr Ala Gly Glu Ala Asp His Thr Leu Tyr Gln Ser Lys Met
 195 200 205
 Thr Gly Arg Met Ala Leu Val Met Gly Ala Glu Gly Glu Gly Met Arg
 210 215 220
 Arg Leu Thr Arg Glu His Cys Asp Glu Leu Ile Ser Ile Pro Met Ala
 225 230 235 240
 Gly Ser Val Ser Ser Leu Asn Val Ser Val Ala Thr Gly Ile Cys Leu
 245 250 255
 Phe Glu Ala Val Arg Gln Arg Gly
 260 265

<210> 6895

<211> 464

<212> PRT

<213> Enterobacter cloacae

<400> 6895

Pro Gln Leu Ala Tyr Phe Arg Val Lys Lys Cys Cys Ile Ser Glu Lys
 1 5 10 15
 Ala Met Val Glu Ser Ile Phe Lys Gln Thr Val Ile Leu Lys Lys Met
 20 25 30
 Gly Asn Asn Val Val Val Leu Gly Thr Gln Trp Gly Asp Glu Gly Lys
 35 40 45
 Gly Lys Ile Val Asp Leu Leu Thr Glu Arg Ala Lys Tyr Val Val Arg
 50 55 60
 Tyr Gln Gly Gly His Asn Ala Gly His Thr Leu Val Ile Asn Gly Glu
 65 70 75 80
 Lys Thr Val Leu His Leu Ile Pro Ser Gly Ile Leu Arg Glu Asn Val
 85 90 95
 Thr Ser Ile Ile Gly Asn Gly Val Val Leu Ser Pro Ala Ala Leu Met
 100 105 110
 Lys Glu Met Lys Gly Leu Glu Asp Arg Gly Ile Pro Val Arg Glu Arg
 115 120 125
 Leu Leu Leu Ser Glu Ala Cys Pro Leu Ile Leu Asp Tyr His Val Ala
 130 135 140
 Leu Asp Val Ala Arg Glu Lys Ala Arg Gly Ala Lys Ala Ile Gly Thr
 145 150 155 160
 Thr Gly Arg Gly Ile Gly Pro Ala Tyr Glu Asp Lys Val Ala Arg Arg
 165 170 175
 Gly Leu Arg Val Gly Asp Leu Phe Asp Lys Ala Thr Phe Ala Glu Lys
 180 185 190
 Leu Lys Glu Val Met Glu Tyr His Asn Phe Gln Leu Val Asn Phe Tyr
 195 200 205
 Lys Ala Glu Ala Val Asp Tyr Gln Lys Val Leu Asp Asp Val Met Ala
 210 215 220
 Ile Ala Asp Ile Leu Thr Gly Met Val Val Asp Val Ser Asp Leu Leu
 225 230 235 240
 Asp Gln Ala Arg Lys Arg Gly Asp Phe Val Met Phe Glu Gly Ala Gln
 245 250 255
 Gly Thr Leu Leu Asp Ile Asp His Gly Thr Tyr Pro Tyr Val Thr Ser
 260 265 270

Ser Asn Thr Thr Ala Gly Gly Val Ala Thr Gly Ser Gly Leu Gly Pro
 275 280 285
 Arg Tyr Val Asp Tyr Val Leu Gly Ile Ile Lys Ala Tyr Ser Thr Arg
 290 295 300
 Val Gly Ala Gly Pro Phe Pro Thr Glu Leu Phe Asp Glu Thr Gly Glu
 305 310 315 320
 Phe Leu Cys Lys Gln Gly Asn Glu Phe Gly Ala Thr Thr Gly Arg Arg
 325 330 335
 Arg Arg Thr Gly Trp Leu Asp Ala Val Ala Val Arg Arg Ala Val Gln
 340 345 350
 Ile Asn Ser Leu Ser Gly Phe Cys Leu Thr Lys Leu Asp Val Leu Asp
 355 360 365
 Gly Leu Lys Glu Val Lys Ile Cys Val Gly Tyr Arg Met Pro Asp Gly
 370 375 380
 Arg Glu Val Thr Thr Thr Pro Leu Ala Ala Asp Asp Trp Glu Gly Ile
 385 390 395 400
 Glu Pro Ile Tyr Glu Thr Met Pro Gly Trp Ser Glu Thr Thr Phe Gly
 405 410 415
 Val Lys Glu Arg Ser Gly Leu Pro Lys Ala Ala Leu Asp Tyr Ile Lys
 420 425 430
 Arg Ile Glu Glu Leu Thr Glu Val Pro Ile Asp Ile Ile Ser Thr Gly
 435 440 445
 Pro Asp Arg Thr Glu Thr Met Ile Leu Arg Asp Pro Phe Asp Ala
 450 455 460

<210> 6896

<211> 167

<212> PRT

<213> Enterobacter cloacae

<400> 6896

Leu Ser Gly Trp Phe Ile Ile Ile Asn Glu Tyr Leu Cys Gly Leu Thr
 1 5 10 15
 Ala Phe Ser Leu Phe Pro Glu Val Asp Val Gln Leu Thr Ser Phe Thr
 20 25 30
 Asp Tyr Gly Leu Arg Ala Leu Ile Tyr Met Ala Ser Leu Pro Asp Gly
 35 40 45
 Lys Met Thr Ser Ile Ser Glu Val Thr Glu Val Tyr Gly Val Ser Arg
 50 55 60
 Asn His Met Val Lys Ile Ile Asn Gln Leu Ser Arg Ala Gly Tyr Val
 65 70 75 80
 Ala Ala Val Arg Gly Lys Asn Gly Gly Ile Arg Leu Gly Lys Pro Ala
 85 90 95
 Gln Ser Ile Arg Ile Gly Asp Val Val Arg Glu Leu Glu Pro Leu Ser
 100 105 110
 Leu Val Asn Cys Ser Ser Ala Phe Cys His Ile Thr Pro Ala Cys Arg
 115 120 125
 Leu Lys Gln Ala Leu Ser Lys Ala Val Gln Ser Phe Leu Lys Glu Leu
 130 135 140
 Asp Asn Tyr Thr Leu Ala Asp Leu Val Glu Glu Asn Gln Pro Leu Tyr
 145 150 155 160
 Lys Leu Leu Leu Val Glu
 165

<210> 6897

<211> 565

<212> PRT

<213> Enterobacter cloacae

<400> 6897

Pro Pro Ser His Ala Ala Cys Met Pro Ser Val His Thr Tyr Leu Tyr

1				5					10				15		
Cys	Gln	Leu	Lys	Glu	Gly	Asp	Ser	Met	His	Trp	Gln	Thr	His	Thr	Val
			20					25					30		
Phe	Asn	Gln	Pro	Ala	Pro	Leu	Ser	Asn	Ser	Asn	Leu	Phe	Leu	Ser	Asp
		35					40					45			
Cys	Ala	Leu	Arg	Asp	Ala	Val	Ala	Arg	Glu	Gly	Ala	Glu	Trp	Asp	Val
	50					55					60				
Asp	Leu	Leu	Ala	Ser	Ile	Gly	Gln	Gln	Leu	Gly	Thr	Ala	Glu	Ser	Leu
65					70					75					80
Glu	Leu	Gly	Arg	Leu	Ala	Asn	Val	Asn	Pro	Pro	Glu	Leu	Leu	Arg	Tyr
			85					90						95	
Asp	Ala	Thr	Gly	Glu	Arg	Leu	Asp	Asp	Val	Arg	Phe	His	Pro	Ala	Trp
			100					105					110		
His	Leu	Leu	Met	Gln	Gly	Leu	Cys	Ala	Asn	Arg	Val	His	Asn	Leu	Ala
		115					120					125			
Trp	Glu	Glu	Glu	Ala	Arg	Lys	Gly	Ser	Phe	Val	Ala	Arg	Ala	Ala	Arg
	130					135					140				
Phe	Val	Leu	His	Ala	Gln	Val	Glu	Ala	Gly	Thr	Leu	Cys	Pro	Val	Thr
145				150						155					160
Met	Thr	Phe	Ala	Ala	Thr	Pro	Leu	Leu	Leu	Gln	Ser	Leu	Pro	Lys	Pro
			165						170					175	
Phe	His	Asp	Trp	Leu	Thr	Pro	Leu	Met	Ser	Asp	Arg	Tyr	Asp	Pro	His
			180					185					190		
Leu	Ala	Pro	Gly	Ala	Gln	Lys	Arg	Gly	Leu	Leu	Ile	Gly	Met	Gly	Met
	195						200					205			
Thr	Glu	Lys	Gln	Gly	Gly	Ser	Asp	Val	Leu	Ser	Asn	Thr	Thr	Lys	Ala
	210					215					220				
Glu	Lys	Cys	Ser	Asp	Gly	Ser	Tyr	Arg	Leu	Val	Gly	His	Lys	Trp	Phe
225				230						235					240
Phe	Ser	Val	Pro	Gln	Ser	Asp	Ala	His	Leu	Val	Leu	Ala	Gln	Ala	Lys
			245						250				255		
Gly	Gly	Leu	Ser	Cys	Phe	Phe	Val	Pro	Arg	Phe	Leu	Pro	Asp	Gly	Gln
		260					265						270		
Arg	Asn	Ala	Val	Arg	Leu	Glu	Arg	Leu	Lys	Asp	Lys	Leu	Gly	Asn	Arg
	275						280					285			
Ser	Asn	Ala	Ser	Ser	Glu	Ala	Glu	Phe	Phe	Asp	Ala	Tyr	Gly	Trp	Leu
	290				295					300					
Leu	Gly	Glu	Glu	Gly	Glu	Gly	Val	Arg	Gln	Ile	Leu	Lys	Met	Gly	Gly
305				310						315					320
Leu	Thr	Arg	Phe	Asp	Cys	Ala	Leu	Gly	Ser	His	Gly	Leu	Met	Arg	Arg
			325						330					335	
Ala	Leu	Ser	Val	Ala	Leu	Tyr	His	Ala	His	Gln	Arg	Gln	Thr	Phe	Gly
			340					345					350		
Lys	Asn	Leu	Ile	Asp	Gln	Pro	Leu	Met	Arg	Asp	Val	Leu	Ser	Arg	Met
	355						360					365			
Ala	Leu	Val	Leu	Glu	Gly	His	Thr	Ala	Leu	Leu	Phe	Arg	Leu	Ala	Arg
	370					375					380				
Ala	Trp	Asp	Asn	Arg	Thr	Asp	Pro	Gln	Glu	Ala	Ala	Trp	Ala	Arg	Leu
385				390						395					400
Phe	Thr	Pro	Ala	Ala	Lys	Tyr	Ser	Val	Cys	Lys	Ala	Gly	Ile	Pro	Phe
			405						410					415	
Val	Ala	Glu	Ala	Met	Glu	Val	Leu	Gly	Gly	Ala	Gly	Tyr	Cys	Glu	Glu
			420					425					430		
Ser	Glu	Leu	Pro	Arg	Leu	Tyr	Arg	Glu	Met	Pro	Val	Asn	Ser	Ile	Trp
	435						440					445			
Glu	Gly	Ser	Gly	Asn	Ile	Met	Cys	Leu	Asp	Val	Leu	Arg	Val	Leu	Ala
	450					455					460				
Lys	Gln	Ser	Gly	Ile	Leu	Asp	Leu	Leu	Ala	Asp	Phe	Ala	Gln	Val	
465				470						475				480	
Lys	Gly	Gln	Asp	Arg	His	Phe	Asp	Arg	Ser	Trp	Arg	Gln	Leu	Gln	Gln
			485						490					495	

Lys Leu Arg Lys Pro Gln Glu Ala Gln Gly Arg Glu Ile Ala Arg Gln
 500 505 510
 Leu Phe Leu Leu Gly Ala Gly Ser Gln Met Leu Arg His Ala Thr Pro
 515 520 525
 Pro Val Ala Gln Ala Trp Cys Arg Met Met Leu Asp Thr Arg Gly Gly
 530 535 540
 Thr Leu Met Ser Glu Gln Val Gln Asn Asp Leu Leu Leu Arg Ala Thr
 545 550 555 560
 Gly Arg Val Gly
 565

<210> 6898

<211> 62

<212> PRT

<213> Enterobacter cloacae

<400> 6898

Pro Ala Arg Ile Ser Ser Ala Arg Arg Glu Asp Gly Arg Leu Gly Pro
 1 5 10 15
 Met Leu Tyr Pro Arg Ala Trp Arg Arg Met Ile Ala Thr Met Ser Gln
 20 25 30
 Leu Pro Asp Asn Ile Leu Arg Arg Phe Gly Gly Gly Leu Val Val Ala
 35 40 45
 Gly Ile Val Ile Tyr Tyr Met Leu Arg Lys Thr Ile Gly
 50 55 60

<210> 6899

<211> 461

<212> PRT

<213> Enterobacter cloacae

<400> 6899

Arg Arg Tyr Ile Thr Gln Tyr Gln Pro Val Lys Asn Ala Glu Gly Gln
 1 5 10 15
 Val Ile Gly Ile Ile Phe Val Gly Val Asp Ile Thr His Ser Trp Asn
 20 25 30
 Val Met Arg Glu Lys Ile Leu Asn Arg Arg Leu Gly Lys Ser Gly His
 35 40 45
 Phe Phe Val Leu Asp Arg Ser Ser Gly Lys Thr Arg Gly Gln Tyr Leu
 50 55 60
 Phe His Ala Ser Glu Glu Gly Lys Leu Pro Asn Trp Asp Thr Ala Thr
 65 70 75 80
 Gln Gln Gln Leu Leu Ser Asp Lys Ala Gly Thr Leu Glu Arg Val Ser
 85 90 95
 Ala Asp Gly Arg Thr Leu Lys Val Ala Tyr Thr Pro Leu Pro Gly Trp
 100 105 110
 Asn Trp Thr Ile Val Gly Glu Val Asp Lys Ala Val Leu Ser Ser
 115 120 125
 Val Thr Thr Leu Arg Asp Arg Phe Leu Met Ala Gly Val Val Leu Ser
 130 135 140
 Ala Leu Phe Ala Gly Leu Phe Val Ile Leu Ile Arg Arg Met Leu Thr
 145 150 155 160
 Arg Pro Leu Arg Ala Val Ile Ala Leu Ala Arg Gln Tyr Ala Ala Gly
 165 170 175
 Asp Leu Arg Ala Ser Leu Pro Val Thr Arg Gln Asp Glu Val Gly Gln
 180 185 190
 Leu Ile Asp Ala Ile Asn Gly Ile Gly Gly Gly Leu Gln Lys Ile Val
 195 200 205
 Leu Gln Val Arg Glu Ala Ala Ser Glu Ile His Leu Gly Thr Asn Ala
 210 215 220
 Leu Ala Ser Asp Thr Gly Glu Ile Ser Glu Gln Ile Asn Lys Gln Ala

225					230					235				240
Ser	Ser	Val	Glu	Glu	Thr	Ser	Ala	Ser	Met	Glu	Gln	Leu	Ala	Ala Thr
				245					250					255
Val	Gln	Gln	Asn	Ala	Ala	Asn	Met	Glu	Gln	Thr	Gln	Gln	Leu	Val Gly
			260					265					270	
Glu	Thr	Ser	Arg	Ala	Val	His	Gln	Gly	Gly	Glu	Thr	Val	Thr	His Ala
		275					280					285		
Val	Ser	Thr	Met	Asp	Asp	Ile	Arg	Asp	Ala	Ser	Lys	Arg	Ile	Glu Asp
	290					295				300				
Ile	Thr	Arg	Val	Ile	Glu	Ser	Ile	Ala	Phe	Gln	Thr	Asn	Ile	Leu Ala
305					310					315				320
Leu	Asn	Ala	Ala	Val	Glu	Ala	Ala	Arg	Ala	Gly	Glu	His	Gly	Lys Gly
			325						330					335
Phe	Ala	Val	Val	Ala	Gln	Glu	Val	Arg	Ala	Leu	Ala	Ala	Arg	Ser Ala
			340					345					350	
Asn	Ala	Val	Lys	Glu	Ile	Glu	Gln	Leu	Ile	Gly	Asp	Thr	Leu	Asn Lys
	355					360					365			
Val	Ser	Glu	Gly	His	Ala	Leu	Ser	Glu	Gln	Thr	Arg	Leu	Ala	Met Asp
	370					375					380			
Ala	Ile	Ile	Val	His	Ile	Asp	Asn	Ile	Ser	Gln	Leu	Val	Thr	Glu Ile
385					390					395				400
Asn	His	Ala	Ser	Arg	Glu	Gln	Ser	Ala	Gly	Ile	Gly	Gln	Val	Asn Leu
				405					410					415
Ala	Met	Thr	His	Ile	Gly	Glu	Ala	Ser	His	Ile	Asn	Ala	Asp	Arg Ile
			420				425					430		
Ser	Arg	Ser	Glu	Gln	Thr	Ala	Gln	Thr	Leu	Arg	Glu	Lys	Gly	Ser His
	435					440					445			
Leu	Thr	Arg	Leu	Val	Ser	Leu	Phe	Gln	Leu	Lys	Ala			
450						455					460			

<210> 6900

<211> 449

<212> PRT

<213> Enterobacter cloacae

<400> 6900

Gly	Gln	Thr	Lys	Val	Ala	Pro	Val	Phe	Arg	Ile	Val	Asn	Arg	Leu	Leu
1				5					10					15	
His	Gly	Ala	Gln	Gln	His	Gly	Leu	Gln	His	Phe	Arg	Val	Arg	Thr	Ile
			20					25					30		
Ala	Asp	Gly	Phe	Gln	Gln	Leu	Gly	Val	Ile	Ala	Trp	Leu	Arg	Leu	Ile
		35					40					45			
Thr	Ala	Arg	Gln	Leu	Gln	Ala	Glu	Phe	Ser	Gln	His	Gly	Ala	Glu	Arg
	50					55					60				
Gly	Tyr	Gly	Phe	Arg	Gly	Trp	Leu	Val	Val	Asn	Thr	Glu	Gln	Arg	Arg
65					70					75				80	
Leu	Phe	Gly	Phe	Leu	Asn	Glu	Thr	Cys	Arg	Arg	Asp	Val	Cys	Gln	Asp
				85					90					95	
His	Thr	Leu	Phe	Asn	Gln	Leu	Val	Arg	Ile	Val	Thr	Leu	Gly	Leu	Leu
			100					105					110		
Asp	Thr	Leu	Asp	Thr	Thr	Leu	Ser	Val	Glu	Asp	Lys	Leu	Arg	Phe	Phe
	115						120					125			
Ala	Leu	Lys	Gly	Asp	Pro	Ala	Ala	Leu	Phe	Ala	Arg	Leu	Ile	Gln	Arg
	130					135					140				
Phe	Val	Glu	Val	Val	Gln	Leu	Phe	Asp	Val	Phe	Asp	Gln	Arg	Arg	Val
145					150					155					160
Leu	Phe	Ala	Gln	Ile	Leu	Ile	Ala	Leu	Gln	His	Met	Pro	Asp	Leu	Gly
			165						170					175	
Ile	Gly	Gln	Ala	Arg	Met	Gly	Thr	His	His	Cys	Phe	Val	Glu	Leu	Ile
			180					185					190		
Ala	Arg	Gln	Thr	Ser	Leu	Ala	Gly	Asp	Gly	His	Phe	Ala	Asp	His	Thr

195					200					205					
Gln	Ala	Val	His	Leu	Arg	Val	Glu	Gly	Thr	Gln	Ala	Val	Gly	Glu	His
210						215				220					
Phe	Trp	Gln	His	Arg	Tyr	Asn	Leu	Arg	Arg	Glu	Val	Asp	Arg	Cys	Thr
225					230					235					240
Ala	Ala	Ala	Arg	Phe	Val	Ile	Gln	Arg	Arg	Val	Trp	Thr	Tyr	Val	Val
				245					250					255	
Ala	His	Ile	Arg	Asp	Ser	His	Pro	Gln	Thr	Pro	Ala	Thr	Thr	Thr	Phe
			260					265					270		
Phe	Leu	Thr	Val	His	Gly	Ile	Ile	Glu	Val	Thr	Gly	Val	Phe	Thr	Ile
		275					280				285				
Asn	Gly	Asp	Gln	Arg	Gln	Ile	Ala	Gln	Ile	His	Ala	Ala	Cys	Phe	Gly
290					295					300					
Leu	Phe	Arg	His	Phe	Phe	Thr	Gln	Val	Phe	Asp	Leu	Val	Phe	Asn	Arg
305				310					315						320
Phe	Arg	Pro	Asp	Val	Arg	Asn	Phe	Met	Gly	Ala	Gln	Arg	His	Ile	Asp
			325						330					335	
Gly	His	Ala	Gly	Ala	His	Val	Ile	Ala	Gln	His	Phe	Asn	Asp	Phe	Thr
		340						345					350		
His	Arg	Phe	Cys	Ala	Thr	Ser	Trp	Ala	Leu	Gly	Glu	Phe	Asn	His	His
		355					360				365				
His	Lys	Ala	His	Ala	Cys	Ala	His	Tyr	Leu	Phe	Arg	Arg	Asp	Glu	Asn
	370				375				380						
Val	Glu	Ala	Gln	Thr	Ala	Val	Val	Arg	His	His	Lys	Ala	Tyr	Ala	Arg
385				390					395						400
Ile	Gly	Lys	Val	Thr	Ala	Asn	Asp	Leu	Ala	Gly	Phe	Arg	His	Gln	His
				405					410					415	
Ala	Asp	His	Ala	Arg	Phe	Ala	Ala	Ala	Phe	Thr	Val	Cys	Thr	Gln	Arg
			420					425					430		
Leu	Arg	Gln	Asp	Leu	Val	Ala	Val	Asn	Thr	His	Leu	His	Leu	Phe	Gly
		435					440				445				

<210> 6901

<211> 137

<212> PRT

<213> Enterobacter cloacae

<400> 6901

Asp	Phe	Cys	Arg	Arg	Ser	Ala	Ala	Asp	Gly	His	Asp	Lys	Ala	Pro	Pro
1				5				10						15	
Arg	Ala	His	Gly	Ala	Ser	Val	Arg	Gly	Cys	Gln	Ala	His	Ser	Gln	Ser
			20					25					30		
Ala	Ser	Ala	Arg	Pro	Ser	Ser	Glu	Phe	Ala	Gly	His	Leu	His	Pro	Leu
		35					40					45			
Arg	Pro	Ala	Ala	Ser	Arg	Lys	His	Gln	Arg	Thr	Gln	Pro	His	Cys	Trp
	50					55					60				
His	Leu	Asn	Gly	Tyr	Arg	Ala	Cys	Pro	Ser	Asp	Ala	Gln	Gly	Ala	Arg
65				70					75						80
His	Cys	Val	Ala	Arg	Arg	Val	Arg	Asn	Ala	Gly	Gln	Lys	Ser	Arg	Thr
				85				90						95	
Thr	Arg	Pro	Ser	Pro	Ala	Arg	Ala	Pro	Asp	Ala	His	Arg	Ser	Ala	Ala
			100					105					110		
Arg	Arg	Lys	Thr	Ile	Cys	Ala	Pro	Pro	Ala	Gly	Asn	Cys	His	His	Cys
		115					120					125			
Ile	Ser	Leu	Leu	Trp	Trp	Tyr	Tyr								
		130				135									

<210> 6902

<211> 437

<212> PRT

<213> Enterobacter cloacae

<400> 6902

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Ile Ile Tyr Ser Tyr Pro Val Phe Val Arg Ile Val Met Gln Gln Asp
1      5      10      15
Ala His Lys Arg Ala Leu Ile Ala Gly Ser Ile Gly Asn Phe Ile Glu
20      25      30
Trp Tyr Glu Phe Ala Val Tyr Gly Phe Leu Ala Thr Val Ile Ala Arg
35      40      45
Asn Phe Phe Gln Leu Glu Gly Glu Ala Glu Leu Thr Ser Leu Ile Leu
50      55      60
Thr Trp Ala Ser Phe Ala Ile Ala Phe Phe Phe Arg Pro Leu Gly Ala
65      70      75      80
Val Val Phe Gly Arg Ile Gly Asp Arg Ile Gly Arg Lys Pro Thr Leu
85      90      95
Ile Ile Val Leu Val Leu Met Thr Leu Ala Thr Ala Ala Ile Gly Ile
100      105      110
Val Pro Val Tyr Ala Ser Ile Gly Ile Ala Ala Pro Leu Ile Val Thr
115      120      125
Leu Leu Arg Ile Leu Gln Gly Leu Phe Ala Gly Gly Glu Tyr Gly Gly
130      135      140
Ala Val Ser Leu Met Thr Glu Phe Ala Pro Arg Gly Lys Arg Gly Leu
145      150      155      160
Tyr Gly Ala Trp Gln Ser Phe Thr Val Ala Leu Gly Leu Leu Ala Gly
165      170      175
Ala Gly Ile Val Ala Leu Leu Ser Ala Leu Leu Ser Pro Glu Ala Leu
180      185      190
His Ala Trp Gly Trp Arg Ile Pro Phe Phe Leu Ala Leu Pro Met Gly
195      200      205
Ala Val Ala Leu Trp Leu Arg Val Ser Met Glu Glu Thr Pro Ser Phe
210      215      220
Val Gln Gln Arg Glu Lys Pro Val Val Thr Gln Ala Thr Thr Ala Ala
225      230      235      240
Thr Phe Lys Thr Ile Leu Met Gly Ile Gly Arg Val Met Val Trp Ser
245      250      255
Ala Ala Gly Tyr Thr Tyr Leu Val Ile Met Pro Thr Tyr Leu Gln Ser
260      265      270
Ala Leu His Thr Gly Phe Asn Gln Ala Leu Leu Ile Ala Val Ile Ser
275      280      285
Asn Ile Gly Phe Ala Leu Thr Ile Ile Pro Ser Gly Met Leu Ser Asp
290      295      300
Arg Ile Gly Arg Arg Thr Val Met Ile Ile Ser Thr Val Leu Leu Leu
305      310      315      320
Ile Leu Ala Leu Pro Leu Leu Lys Ile Leu Gln Ala Glu Thr Ser Thr
325      330      335
Leu Ala Val Lys Ala Ile Val Val Leu Ile Ala Gly Gly Leu Val Gly
340      345      350
Met Leu Ala Gly Pro Gly Pro Ala Met Leu Ser Glu Met Phe Pro Thr
355      360      365
Arg Val Arg Tyr Thr Gly Leu Gly Leu Ala Tyr Ser Leu Ser Asn Ala
370      375      380
Ile Phe Ser Gly Cys Thr Gly Leu Ile Ile Thr Gly Leu Ile Lys Glu
385      390      395      400
Thr Gly Asn Leu Asp Ile Pro Ala Tyr Tyr Val Met Ala Thr Ala Val
405      410      415
Val Ser Ile Phe Ala Leu Met Thr Leu Arg Lys Asp Asp His Leu Arg
420      425      430
Ser Leu Glu Glu
435

```

<210> 6903
 <211> 244
 <212> PRT
 <213> Enterobacter cloacae

<400> 6903
 Thr Ser Asp Arg His Ala Arg Arg Tyr Met Ser Gly Ser Phe Phe Leu
 1 5 10 15
 Ser Gly Val Ser Ala Met Ala Glu Gly Pro Leu Asn Glu Ser Glu Met
 20 25 30
 Ala Trp Leu Glu Glu Thr Leu Ile Ser Tyr Gly His Asp Asp Ala Ser
 35 40 45
 Val Ile Asp Val Ser Glu Leu Asp Gly Met Leu Thr Ala Val Leu Ser
 50 55 60
 Gly Pro Val Val Val Glu Pro Asp Thr Trp Leu Val Ala Val Trp Gly
 65 70 75 80
 Gly Glu Lys Tyr Ile Pro Arg Trp Lys Asn Asp Arg Glu Met Asn Arg
 85 90 95
 Phe Ile Asp Leu Cys Phe Lys His Met Asn Asp Ile Ala Glu Arg Leu
 100 105 110
 Ser Glu Tyr Pro Asp Gln Phe Glu Pro Leu Phe Gly Tyr Asn Asp Val
 115 120 125
 Asp Gly Gln Ser Tyr Thr Val Val Glu Glu Trp Cys Tyr Gly Tyr Met
 130 135 140
 Arg Gly Val Ala Leu Thr Asp Trp Ser Ser Leu Pro Glu Ala Leu Glu
 145 150 155 160
 Ala Asp Leu Ala Val Ile Ala Leu His Gly Thr Glu Glu Asn Ser Glu
 165 170 175
 Lys Leu Asp Ala Leu Thr Glu Glu Glu Tyr Met Ala Ser Ile Glu Ser
 180 185 190
 Ile Gln Pro Ala Ala Leu Arg Leu Tyr Asp Tyr Trp Val Ala Asn Pro
 195 200 205
 Gln Gln Pro Glu Ala Lys Lys Pro Ile Val Asn Gly Ser Lys Leu Gly
 210 215 220
 Arg Asn Asp Pro Cys Pro Cys Gly Ser Gly Lys Lys Phe Lys Ser Cys
 225 230 235 240
 Cys Leu His

<210> 6904
 <211> 88
 <212> PRT
 <213> Enterobacter cloacae

<400> 6904
 Ser Ala Phe Tyr Leu Arg Glu Val Thr Met Ser Ile His Gly His Asp
 1 5 10 15
 Val Leu Asn Met Met Ile Glu Ser Gly Glu Arg Tyr Thr Glu Glu Ser
 20 25 30
 Leu Val Glu Ala Ile His Ala Arg Phe Gly Glu Ala Ala Arg Phe His
 35 40 45
 Thr Cys Ser Ala Ser Glu Met Thr Ala Ala Glu Leu Val Ala Phe Leu
 50 55 60
 Ala Ala Arg Gly Lys Phe Ile Pro Ala Ala Asp Gly Phe Ser Thr His
 65 70 75 80
 Glu Ser Lys Ile Cys Arg His
 85

<210> 6905
 <211> 311
 <212> PRT

<213> Enterobacter cloacae

<400> 6905

```

Asn Phe His Leu Arg Asp Val Met Ser Leu Pro Pro Leu Tyr Ala Leu
1      5      10      15
Arg Ala Phe Glu Val Ala Ala Arg Leu Asn Ser Phe Ser Lys Ala Ala
20      25      30
Glu Thr Leu Asn Ile Thr Pro Gly Ala Val Ser Arg His Val Arg Thr
35      40      45
Leu Glu Leu Trp Phe Asp Cys Glu Leu Phe Lys Arg Gln Gly Pro Arg
50      55      60
Val Glu Val Thr Glu Ala Gly Arg Val Leu Ala Gly Gln Leu Asn Glu
65      70      75      80
Ser Phe Thr Ser Ile Glu Trp Ala Cys Arg Ala Phe Arg Ser Glu Asn
85      90      95
His Leu Leu Arg Leu Lys Ala Pro Ser Thr Leu Thr Met Arg Trp Leu
100     105     110
Leu Asp Val Leu Arg Ser Phe Arg Asn Asn His Ala Lys Pro Gln Val
115     120     125
Glu Ile Ala Ser Val Trp Met Asp Ile Asp Thr Val Asp Phe Asn Leu
130     135     140
Glu Pro Tyr Asp Cys Ala Ile Leu Leu Gly Asn Gly Arg Phe Gly Asp
145     150     155     160
Thr Thr Glu Ser Gln Leu Leu Phe His Glu Trp Leu Ile Pro Val Cys
165     170     175
Thr Pro Ser Leu Ile Glu Pro Ala Arg Gln Arg Leu Pro Gln Cys Asp
180     185     190
Leu Ile His Pro Ser Pro Asp Arg Arg Asp Trp Arg Arg Trp Leu Arg
195     200     205
Arg Thr Gly Leu Phe Pro Gly Leu Asp Met Ser Ser Gly Met Val Phe
210     215     220
Asp Thr Leu Glu Gln Gly Ser Ile Ala Ala Met Asn Gly His Gly Ile
225     230     235     240
Ala Ile Ala Asp Leu His Leu Thr Leu Asp Ala Leu Lys Ser Gly Leu
245     250     255
Leu Ala Leu Ala Val Gln Gly Ser Tyr Cys Asp Arg Gly Trp Leu Leu
260     265     270
Pro Arg Leu Ala Lys Lys Phe Thr Gln Lys Arg Glu His Ser Ala Ser
275     280     285
Ser Gly Leu Ala Ala Lys Pro Tyr Pro Gly Arg Ser Gly Ala Gly Tyr
290     295     300
Arg Leu Ser Gly Ile Arg
305     310

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<210> 6906

<211> 114

<212> PRT

<213> Enterobacter cloacae

<400> 6906

```

Thr Met Lys Arg Ile Ile Ile Ala Gly Thr Ile Leu Leu Leu Ala Gly
1      5      10      15
Cys Ser Ile Asn Arg Gln Ala Glu Ile Ser Ser Thr Asp Ala Pro Asn
20      25      30
Gly Ile Val Arg Leu Asp Tyr Gly Gln Ala Met Leu Gln Asn Ala Trp
35      40      45
Ser Asp Glu Tyr Val Asn Asn Gly Thr Ala Thr Lys Ala Cys Gln His
50      55      60
Met Gly Tyr Ala Thr Ala Ser Ala Tyr Gly Gln Pro Ile Lys Thr Cys
65      70      75      80
Thr Leu Ile Ser Gly Ser Leu Cys Leu Asn Glu Ser Val Thr Ile Gln

```


				85					90					95		
Tyr	Lys	Cys	Gln	Gly	Tyr	Ala	Val	Thr	Ser	Ser	Ser	Gln	Asn	Pro	Trp	
			100					105					110			

Tyr

<210> 6907

<211> 431

<212> PRT

<213> Enterobacter cloacae

<400> 6907

Ser	Val	Arg	Asn	Asn	Ala	Met	Thr	Ser	Asp	Gly	Phe	Ser	Leu	Lys	Arg	
1				5					10					15		
Cys	Ile	Leu	Asp	Ala	Ile	Phe	Ser	Gly	Met	Ile	Ala	Leu	Ile	Ile	Phe	
			20					25					30			
Gly	Pro	Ile	Ala	Gly	Val	Ile	Leu	Asp	Gly	Tyr	Ser	Phe	Thr	Phe	Gly	
			35				40					45				
Gly	Gln	Arg	Leu	Ala	Trp	Ile	Val	Gly	Thr	Val	Met	Val	Gly	Arg	Phe	
	50					55					60					
Leu	Leu	Ser	Ala	Phe	Ser	Ala	Thr	Ala	Ala	Gly	Arg	Arg	Leu	Gln	Thr	
65					70					75					80	
Arg	Phe	Glu	Ser	Asp	Asn	Ala	Gly	Val	Tyr	Val	Arg	Pro	Pro	Ala	Tyr	
				85					90					95		
Lys	Ser	Arg	Met	Arg	Trp	Ile	Ile	Pro	Leu	Ile	Val	Thr	Leu	Ala	Ile	
			100					105					110			
Cys	Phe	Pro	Phe	Val	Ala	Thr	Lys	Tyr	Leu	Leu	Thr	Val	Ala	Ile	Leu	
		115					120					125				
Gly	Leu	Ile	Tyr	Val	Leu	Leu	Gly	Leu	Gly	Leu	Asn	Ile	Val	Val	Gly	
	130					135					140					
Leu	Ala	Gly	Leu	Leu	Asp	Leu	Gly	Tyr	Val	Ala	Phe	Tyr	Ala	Ile	Gly	
145					150					155					160	
Ala	Tyr	Gly	Leu	Ala	Leu	Gly	Tyr	Gln	Tyr	Leu	Gly	Leu	Gly	Phe	Trp	
				165				170						175		
Ser	Met	Leu	Pro	Leu	Ala	Ala	Leu	Met	Ala	Ala	Gly	Ala	Gly	Ala	Leu	
			180					185					190			
Leu	Gly	Phe	Pro	Val	Leu	Arg	Met	His	Gly	Asp	Tyr	Leu	Ala	Ile	Val	
	195						200					205				
Thr	Leu	Gly	Phe	Gly	Glu	Ile	Arg	Leu	Val	Leu	Asn	Asn	Trp	Leu		
	210					215					220					
Thr	Phe	Thr	Gly	Gly	Pro	Asn	Gly	Val	Ser	Ala	Pro	Ala	Pro	Thr	Phe	
225					230					235					240	
Phe	Gly	Leu	Glu	Phe	Gly	Arg	Arg	Ala	Lys	Glu	Gly	Gly	Val	Pro	Phe	
				245					250					255		
His	Glu	Phe	Phe	Gly	Leu	Thr	Tyr	Asn	Pro	Asn	Met	Lys	Phe	Ile	Phe	
		260						265					270			
Ile	Tyr	Ala	Val	Leu	Phe	Leu	Val	Val	Met	Leu	Val	Leu	Tyr	Ile	Lys	
		275					280					285				
His	Arg	Leu	Thr	Arg	Met	Pro	Ile	Gly	Arg	Ala	Trp	Glu	Ala	Leu	Arg	
	290				295						300					
Glu	Asp	Glu	Ile	Ala	Cys	Arg	Ser	Met	Gly	Leu	Asn	His	Val	Leu	Val	
305					310					315					320	
Lys	Leu	Ser	Ala	Phe	Thr	Leu	Gly	Ala	Ser	Thr	Ala	Gly	Ile	Ala	Gly	
				325					330					335		
Val	Phe	Phe	Ala	Thr	Tyr	Gln	Gly	Phe	Val	Asn	Pro	Thr	Ser	Phe	Thr	
			340					345					350			
Phe	Phe	Glu	Ser	Ala	Leu	Ile	Leu	Ala	Ile	Val	Val	Leu	Gly	Gly	Met	
		355					360					365				
Gly	Ser	Thr	Val	Gly	Val	Val	Leu	Ala	Ala	Phe	Val	Leu	Thr	Val	Thr	
	370					375					380					
Pro	Glu	Leu	Leu	Arg	Ser	Phe	Ala	Glu	Tyr	Arg	Val	Leu	Leu	Phe	Gly	

385				390					395				400
Met	Leu	Met	Val	Val	Met	Met	Ile	Trp	Arg	Pro	Arg	Gly	Leu
				405					410				Ile
Ile	Asn	Arg	Ser	Gly	Phe	Thr	Val	Arg	Lys	Gly	Val	Ala	Pro
			420					425					430

<210> 6908

<211> 429

<212> PRT

<213> Enterobacter cloacae

<400> 6908

Phe	Asp	Glu	Thr	Gly	Leu	Phe	Pro	Tyr	Ser	Ala	Pro	Gln	Asn	Glu	Ser
1				5					10					15	
Arg	Tyr	Gly	Ser	Val	Val	Glu	Glu	Ser	Val	Lys	Asn	Arg	Thr	Leu	Gly
			20					25					30		
Ser	Ile	Phe	Ile	Val	Ala	Gly	Thr	Thr	Ile	Gly	Ala	Gly	Met	Leu	Ala
		35					40					45			
Met	Pro	Leu	Ala	Ala	Ala	Gly	Val	Gly	Phe	Gly	Ile	Thr	Val	Val	Leu
	50					55					60				
Leu	Gly	Gly	Leu	Trp	Ala	Leu	Met	Cys	Tyr	Thr	Ala	Leu	Leu	Leu	Leu
65				70					75						80
Glu	Val	Tyr	Gln	His	Val	Pro	Ala	Asp	Thr	Gly	Leu	Gly	Ser	Leu	Ala
				85					90					95	
Ala	Arg	Tyr	Leu	Gly	Arg	Tyr	Gly	Gln	Trp	Ile	Ala	Gly	Phe	Ser	Met
			100					105					110		
Met	Phe	Leu	Met	Tyr	Ala	Leu	Thr	Ala	Ala	Tyr	Ile	Ser	Gly	Ala	Gly
		115					120					125			
Glu	Leu	Ile	Ala	Ser	Ser	Ile	Asn	Asp	Gly	Phe	Gly	Ala	Ser	Leu	Ser
	130					135					140				
Pro	Glu	Thr	Gly	Ala	Ile	Val	Phe	Thr	Leu	Ile	Gly	Gly	Gly	Val	Val
145					150					155					160
Cys	Ala	Gly	Thr	Ser	Leu	Val	Asp	Leu	Phe	Asn	Arg	Phe	Leu	Phe	Ser
				165					170					175	
Ala	Lys	Ile	Leu	Phe	Leu	Val	Val	Met	Leu	Val	Leu	Leu	Ala	Pro	His
			180					185					190		
Val	His	Lys	Ile	Asn	Leu	Leu	Ser	Leu	Pro	Leu	Glu	Lys	Gly	Leu	Ala
		195					200					205			
Leu	Ser	Ala	Ile	Pro	Val	Ile	Phe	Thr	Ser	Phe	Gly	Phe	His	Gly	Ser
	210					215					220				
Val	Pro	Ser	Ile	Val	Ser	Tyr	Met	Asn	Gly	Asp	Ile	Arg	Lys	Leu	Arg
225					230					235					240
Arg	Val	Phe	Val	Ile	Gly	Ser	Ala	Ile	Pro	Leu	Ile	Ala	Tyr	Leu	Phe
				245					250					255	
Trp	Gln	Leu	Val	Thr	Leu	Gly	Ser	Ile	Asp	Ser	Asn	Thr	Phe	Ile	Gly
			260					265					270		
Leu	Met	Ala	Glu	His	Ser	Gly	Leu	Asn	Gly	Phe	Leu	Val	Ala	Leu	Arg
		275					280					285			
Asn	Val	Val	Ala	Ser	Ser	His	Val	Glu	Leu	Ala	Val	His	Leu	Phe	Ala
	290					295					300				
Asp	Leu	Ala	Leu	Ala	Thr	Ser	Phe	Leu	Gly	Val	Ala	Leu	Gly	Leu	Phe
305					310					315					320
Asp	Tyr	Met	Ala	Asp	Leu	Phe	Gln	Arg	Arg	Asn	Thr	Val	Ala	Gly	Arg
			325						330					335	
Leu	Gln	Thr	Gly	Ala	Met	Thr	Phe	Leu	Pro	Pro	Leu	Ala	Phe	Ala	Leu
			340					345					350		
Phe	Tyr	Pro	Arg	Gly	Phe	Val	Met	Ala	Leu	Gly	Tyr	Ala	Gly	Val	Ala
		355					360					365			
Leu	Ser	Val	Leu	Ala	Leu	Leu	Leu	Pro	Ser	Leu	Leu	Ala	Trp	Lys	Ser
	370					375					380				
Arg	Gln	Gln	His	Pro	Gln	Gln	Gly	Tyr	Arg	Val	Ala	Gly	Gly	Thr	Pro

385		390		395		400									
Met	Leu	Cys	Val	Val	Phe	Gly	Cys	Gly	Val	Ala	Ile	Ile	Leu	Val	Gln
				405					410					415	
Ile	Leu	Ile	Ala	Ala	Gly	Met	Leu	Pro	Glu	Val	Gly				
			420					425							

<210> 6909

<211> 332

<212> PRT

<213> Enterobacter cloacae

<400> 6909

Arg	Ser	Ala	Ile	Thr	Gly	Arg	Asn	Leu	Leu	Ser	Ala	Gly	Arg	Ser	Asp
1				5					10					15	
Cys	Arg	Arg	Asn	Pro	Leu	Phe	Arg	Cys	Ala	Thr	Met	Ser	Thr	Phe	Phe
			20					25					30		
Leu	Gln	Gln	Leu	Ile	Asn	Gly	Leu	Thr	Leu	Gly	Ser	Val	Tyr	Gly	Leu
		35					40					45			
Ile	Ala	Ile	Gly	Tyr	Thr	Met	Val	Tyr	Gly	Ile	Ile	Gly	Met	Ile	Asn
	50					55				60					
Phe	Ala	His	Gly	Glu	Val	Tyr	Met	Ile	Ser	Ala	Tyr	Leu	Ser	Ala	Ile
65					70					75					80
Gly	Leu	Ala	Leu	Leu	Ala	Phe	Phe	Gly	Leu	His	Ser	Phe	Pro	Leu	Leu
				85					90					95	
Ile	Leu	Gly	Thr	Leu	Val	Phe	Thr	Ile	Val	Val	Thr	Gly	Val	Tyr	Gly
			100					105					110		
Trp	Thr	Ile	Glu	Arg	Ile	Ala	Tyr	Lys	Pro	Leu	Arg	Asn	Ser	Thr	Arg
		115					120					125			
Leu	Ala	Pro	Leu	Ile	Ser	Ala	Ile	Gly	Met	Ser	Leu	Ile	Leu	Gln	Asn
	130					135					140				
Tyr	Val	Gln	Leu	Ser	Gln	Gly	Pro	Arg	Gln	Gln	Gly	Val	Pro	Thr	Met
145					150					155					160
Leu	Asp	Gly	Val	Leu	Arg	Phe	His	Leu	Gly	Glu	Gly	Phe	Val	Gln	Ile
				165					170					175	
Thr	Tyr	Thr	Lys	Val	Phe	Ile	Leu	Ile	Ala	Ser	Phe	Ala	Gly	Met	Leu
			180				185						190		
Val	Leu	Thr	Trp	Ile	Ile	Asn	Arg	Thr	Arg	Leu	Gly	Arg	Met	Cys	Arg
		195				200						205			
Ala	Val	Gln	Gln	Asp	Arg	Lys	Met	Ala	Ser	Ile	Leu	Gly	Ile	Asn	Thr
		210				215					220				
Asp	Arg	Ile	Ile	Ser	Leu	Val	Phe	Val	Ile	Gly	Ala	Ala	Met	Ala	Gly
225					230					235					240
Leu	Ala	Gly	Val	Leu	Ile	Thr	Met	Asn	Tyr	Gly	Thr	Phe	Asp	Phe	Tyr
				245					250					255	
Val	Gly	Phe	Val	Ile	Gly	Ile	Lys	Ala	Phe	Thr	Ala	Ala	Glu	Leu	Gly
			260				265						270		
Gly	Ile	Gly	Ser	Leu	Pro	Gly	Ala	Met	Leu	Gly	Gly	Leu	Ile	Leu	Gly
		275				280						285			
Val	Ala	Glu	Ala	Gln	Phe	Ser	Gly	Met	Val	Asn	Ser	Asp	Tyr	Lys	Asp
		290				295					300				
Val	Phe	Ser	Phe	Gly	Leu	Leu	Val	Leu	Ile	Leu	Ile	Phe	Arg	Pro	Gln
305					310					315					320
Gly	Leu	Leu	Gly	Arg	Pro	Val	Val	Ala	Lys	Val					
				325					330						

<210> 6910

<211> 255

<212> PRT

<213> Enterobacter cloacae

<400> 6910

Lys Ser Tyr Cys Arg Val Ser Gly His Arg Arg Lys Arg Gly Lys Ser
 1 5 10 15
 Val Ser Glu Pro Met Leu Gln Phe Gln Asp Val Asp Val Phe Tyr Gly
 20 25 30
 Val Ile Gln Ala Leu Lys Gln Val Ser Leu Glu Val Asn Lys Gly Glu
 35 40 45
 Thr Val Ala Leu Ile Gly Ala Asn Gly Ala Gly Lys Ser Thr Leu Leu
 50 55 60
 Met Ser Val Phe Gly Gln Pro Arg Ile Arg Asn Gly Gln Ile Leu Phe
 65 70 75 80
 Cys Gly Glu Asp Ile Ser His Lys Ser Thr His Tyr Val Ala Thr Gly
 85 90 95
 Gly Ile Ala Gln Ala Pro Glu Gly Arg Arg Ile Phe Pro Asp Met Ser
 100 105 110
 Val Glu Glu Asn Leu Leu Met Gly Thr Ile Pro Val Gly Asn Gln His
 115 120 125
 Ala Ala Glu Asp Met Gln Ser Met Phe Asp Leu Phe Pro Arg Leu Lys
 130 135 140
 Glu Arg Arg Asn Gln Arg Ala Met Thr Leu Ser Gly Gly Glu Gln Gln
 145 150 155 160
 Met Leu Ala Ile Ala Arg Ala Leu Met Ser Arg Pro Lys Leu Leu Leu
 165 170 175
 Leu Asp Glu Pro Ser Leu Gly Leu Ala Pro Ile Val Val Lys Gln Ile
 180 185 190
 Phe Gln Thr Leu Arg Glu Leu Ala Arg Asn Gly Met Thr Ile Phe Leu
 195 200 205
 Val Glu Gln Asn Ala His His Ala Leu Lys Leu Ser Asp Arg Gly Tyr
 210 215 220
 Val Met Val Asn Gly Gln Ile Arg Leu Ser Gly Ser Gly Glu Ala Leu
 225 230 235 240
 Leu Lys Asp Pro Glu Val Arg Lys Ala Tyr Leu Gly Gly Val 255
 245 250

<210> 6911

<211> 185

<212> PRT

<213> Enterobacter cloacae

<400> 6911

Ile Thr Asn Tyr Ser Val Ala His Arg Glu Pro Glu Leu Ile Asn Arg
 1 5 10 15
 Ser Cys Thr Met Leu Lys Thr Glu Met Ile Asp Lys Leu Asn Ala Gln
 20 25 30
 Met Asn Leu Glu Leu Phe Ser Ser Leu Leu Tyr Gln Gln Met Ser Ala
 35 40 45
 Trp Cys Ser Tyr His Ser Phe Glu Gly Ala Ala Ala Phe Leu Arg Arg
 50 55 60
 His Ala Gln Glu Glu Met Thr His Met Gln Arg Leu Phe Asp Tyr Leu
 65 70 75 80
 Thr Asp Thr Gly Ser Leu Pro Arg Ile Asp Asn Val Ala Ser Pro Phe
 85 90 95
 Ala Glu Tyr Gly Ser Leu Asp Glu Leu Phe Arg Ala Thr Tyr Glu His
 100 105 110
 Glu Gln Leu Ile Thr Gln Lys Ile Asn Glu Leu Ala His Ala Ala Met
 115 120 125
 Thr Ser Gln Asp Tyr Pro Thr Phe Asn Phe Leu Gln Trp Tyr Val Ala
 130 135 140
 Glu Gln His Glu Glu Glu Lys Leu Phe Lys Ser Val Leu Asp Lys Leu
 145 150 155 160
 Ser Leu Ala Gly Lys Ser Gly Glu Gly Leu Tyr Phe Ile Asp Lys Glu
 165 170 175

Leu Ser Thr Leu Asp Thr Gln Asn
180 185

<210> 6912

<211> 427

<212> PRT

<213> Enterobacter cloacae

<400> 6912

Cys	Ser	Ala	Arg	Phe	Ala	Val	Arg	Gly	Ile	Leu	Ala	Val	Leu	Ser	Met
1				5					10					15	
Arg	Leu	Leu	Leu	Lys	Cys	Ile	Leu	Phe	Ser	Leu	Leu	Phe	Leu	Asp	Leu
			20					25					30		
Arg	Cys	His	Gln	Ala	Phe	Gly	Phe	Ile	Pro	Gly	Ala	Lys	Thr	Ser	Leu
		35				40						45			
Leu	Arg	Asn	Ile	Ile	Met	Ser	Leu	Lys	Phe	Thr	Lys	Thr	Pro	Leu	Ser
	50					55					60				
Leu	Val	Leu	Ala	Gly	Cys	Leu	Val	Thr	Ala	Phe	Ser	Ala	Gln	Ala	Asp
65				70					75						80
Ile	Val	Ile	Gly	Val	Ala	Gly	Pro	Phe	Thr	Gly	Pro	Asn	Ala	Thr	Tyr
			85						90						95
Gly	Asp	Gln	Tyr	Trp	His	Gly	Ala	Thr	Gln	Ala	Ala	Glu	Asp	Ile	Asn
		100						105					110		
Ala	Ala	Gly	Gly	Ile	Asn	Gly	Glu	Lys	Ile	Lys	Leu	Val	Gln	Gly	Asp
		115					120					125			
Asp	Ala	Cys	Glu	Pro	Lys	Gln	Ala	Val	Ala	Val	Ala	Asn	Arg	Leu	Val
	130					135					140				
Asp	Gln	Asp	Lys	Val	Lys	Ala	Val	Val	Gly	His	Phe	Cys	Ser	Ser	Ser
145					150				155						160
Thr	Met	Pro	Ala	Ser	Glu	Val	Tyr	Ser	Asp	Ala	Gly	Ile	Leu	Ser	Ile
				165					170					175	
Thr	Pro	Gly	Ser	Thr	Asn	Pro	Leu	Ile	Thr	Glu	Arg	Gly	Met	Ser	Asp
			180					185					190		
Ile	Phe	Arg	Met	Cys	Gly	Arg	Asp	Asp	Gln	Gln	Gly	Gln	Val	Ala	Ser
		195					200					205			
Asp	Phe	Ile	Leu	Asp	Lys	Leu	Lys	Ala	Lys	Arg	Val	Val	Ile	Ile	His
	210					215					220				
Asp	Lys	Asp	Thr	Tyr	Gly	Gln	Gly	Leu	Ala	Asp	Ala	Thr	Lys	Ala	Ala
225					230					235					240
Leu	Ala	Lys	Arg	Gly	Val	Lys	Glu	Val	Met	Tyr	Glu	Gly	Leu	Ser	Arg
				245					250					255	
Gly	Glu	Lys	Asp	Phe	Asn	Ala	Leu	Val	Thr	Lys	Ile	Gly	Ala	Gln	Lys
			260					265					270		
Pro	Asp	Val	Val	Phe	Phe	Gly	Gly	Cys	His	Pro	Glu	Ala	Gly	Pro	Leu
		275					280					285			
Val	Arg	Gln	Met	Arg	Glu	Gln	Gly	Val	Gln	Ala	Lys	Phe	Phe	Ser	Gly
	290					295					300				
Asp	Cys	Ile	Val	Asn	Glu	Glu	Met	Val	Thr	Ala	Ala	Gly	Gly	Ala	Gln
305					310					315					320
Tyr	Thr	Asn	Gly	Ile	Tyr	Met	Thr	Phe	Gly	Lys	Asp	Pro	Arg	Leu	Ile
			325						330					335	
Pro	Asp	Gly	Lys	Ala	Val	Ile	Glu	Lys	Phe	Arg	Thr	Gly	Lys	Phe	Glu
			340					345					350		
Pro	Glu	Gly	Tyr	Thr	Leu	Tyr	Ala	Tyr	Ala	Ser	Val	Gln	Ala	Ile	Ala
		355					360					365			
Ala	Ala	Phe	Lys	Ala	Thr	Gln	Gly	Thr	Asp	Ser	Ala	Lys	Ala	Ser	Glu
	370					375					380				
Trp	Leu	Lys	Ala	Asn	Pro	Val	Asp	Thr	Val	Met	Gly	Lys	Lys	Ala	Trp
385					390					395					400
Asp	Ser	Lys	Gly	Asp	Leu	Lys	Val	Ser	Asp	Tyr	Val	Val	Tyr	Gln	Trp
				405					410					415	

Asp Asp Lys Gly Lys Tyr Lys Glu Val Pro
 420 425

<210> 6913
 <211> 296
 <212> PRT
 <213> Enterobacter cloacae

<400> 6913
 Arg Ser Gly Ala Met Asn Ala Thr Ile Leu Arg Val Glu His Leu Met
 1 5 10 15
 Met His Phe Gly Gly Ile Lys Ala Leu Asn Asp Val Asn Leu Glu Val
 20 25 30
 Gln Arg Gly Ser Ile Thr Ala Leu Ile Gly Pro Asn Gly Ala Gly Lys
 35 40 45
 Thr Thr Val Phe Asn Cys Leu Thr Gly Phe Tyr Arg Ala Ser Gly Gly
 50 55 60
 Asn Ile Leu Phe Asn Ala Arg Asn Lys Thr Thr Asn Val Ile Gln Val
 65 70 75 80
 Leu Gly Gln Lys Phe Gln Pro Gly Asp Trp Leu Asn Pro Ala Gln Leu
 85 90 95
 Gly Gln Arg Leu Phe Tyr Lys Met Phe Gly Gly Thr His Leu Val Asn
 100 105 110
 Arg Ala Gly Leu Ala Arg Thr Phe Gln Asn Ile Arg Leu Phe Arg Glu
 115 120 125
 Met Ser Val Val Glu Asn Leu Leu Val Ala Gln His Met Arg Val Asn
 130 135 140
 Arg Asn Leu Leu Ala Gly Val Leu Asn Thr Pro Ala Tyr Arg Arg Ala
 145 150 155 160
 Glu Asn Asp Ala Leu Asp Arg Ala Phe Tyr Trp Leu Glu Val Val Asp
 165 170 175
 Leu Val Asp Cys Ala Asn Arg Leu Ala Gly Glu Met Ser Tyr Gly Gln
 180 185 190
 Gln Arg Arg Leu Glu Ile Ala Arg Ala Met Cys Thr Gly Pro Glu Met
 195 200 205
 Ile Cys Leu Asp Glu Pro Ala Ala Gly Leu Asn Pro Val Glu Thr His
 210 215 220
 Lys Leu Ser Glu Ile Ile Arg Phe Leu Arg Asp His His Asp Ile Thr
 225 230 235 240
 Val Leu Leu Ile Glu His Asp Met Gly Met Val Met Gly Ile Ser Asp
 245 250 255
 Asp Ile Ile Val Leu Asp His Gly Asp Val Ile Ala Arg Gly Lys Pro
 260 265 270
 Ala Glu Ile Gln His Asn Glu Lys Val Ile Ala Ala Tyr Leu Gly Thr
 275 280 285
 Asp Glu Ser Glu Val Asn Leu
 290 295

<210> 6914
 <211> 295
 <212> PRT
 <213> Enterobacter cloacae

<400> 6914
 Ala Leu Ile Pro Leu Tyr Cys Pro Leu Leu Cys Gly Asn Lys Arg Pro
 1 5 10 15
 Leu Pro Met Leu Met Ile Thr Ser Phe Ser Asn Pro Arg Val Ala Gln
 20 25 30
 Ala Phe Val Asp Tyr Met Ala Thr Gln Gly Ile Ile Leu Thr Ile Gln
 35 40 45
 Gln His Thr Gln Thr Asp Val Trp Leu Ala Asp Glu Ser Gln Ala Gly

50	55	60
Arg Val Asn Ala Glu Leu Ala Arg Phe Leu Glu Asn Pro Gly Asp Pro		
65	70	75
Arg Tyr Leu Ala Ala Ser Trp Gln Ser Gly Gln Thr Gly Ser Gly Leu		80
	85	90
His Tyr Gln Arg Phe Pro Phe Leu Ala Thr Leu Arg Glu Arg Ala Gly		95
	100	105
Pro Phe Thr Leu Leu Leu Met Val Ala Cys Ile Ile Val Phe Ile Ile		110
	115	120
Met Ser Val Val Gly Asp Gln Ser Val Met Ile Ala Leu Ala Trp Pro		125
	130	135
Tyr Asp Pro Ser Leu Gln Phe Asp Val Trp Arg Tyr Phe Thr His Ala		140
145	150	155
Leu Met His Phe Ser Val Met His Ile Leu Phe Asn Leu Leu Trp Trp		160
	165	170
Trp Tyr Leu Gly Gly Ala Val Glu Lys Arg Leu Gly Ser Gly Lys Leu		175
	180	185
Ile Val Ile Thr Leu Ile Ser Ala Leu Leu Ser Gly Tyr Val Gln His		190
	195	200
Lys Phe Ser Gly Pro Trp Phe Gly Gly Leu Ser Gly Val Val Tyr Ala		205
	210	215
Leu Met Gly Tyr Ala Trp Leu Arg Gly Glu Arg Asp Pro Asp Ser Gly		220
225	230	235
Ile Tyr Leu Gln Arg Gly Leu Ile Thr Phe Ala Leu Ile Trp Leu Ile		240
	245	250
Ala Gly Trp Phe Asp Leu Phe Gly Met Ser Ile Ala Asn Gly Ala His		255
	260	265
Val Thr Gly Leu Ala Val Gly Leu Ala Met Ala Leu Ala Asp Thr Leu		270
	275	280
His Ala Arg Lys Arg Thr		285
290	295	

<210> 6915

<211> 81

<212> PRT

<213> Enterobacter cloacae

<400> 6915

Ser Phe Ala Met Gly His Thr Pro Gly Ala Phe His Leu Thr Asn Asp		
1	5	10
Thr Leu Gly Ala Phe Met Arg Asp Asn Asp Phe Asp Thr Pro Val Met		15
	20	25
Val Met Cys Tyr His Gly Asn Ser Ser Lys Gly Ala Ala Gln Tyr Leu		30
	35	40
Leu Gln Gln Gly Tyr Glu Ala Val Tyr Ser Val Asp Gly Gly Phe Asp		45
	50	55
Ala Trp His Arg His Phe Pro Ala Glu Val Glu Tyr Ala Phe Glu Arg		60
65	70	75
		80

<210> 6916

<211> 301

<212> PRT

<213> Enterobacter cloacae

<400> 6916

Tyr Gly Leu Leu Pro Asp Gly Leu Ile Cys Leu Val Cys Leu Ser Pro		
1	5	10
Met Val Arg Thr Leu Pro Ala Trp Arg Ser Gly Trp Arg Trp Arg Trp		15
	20	25
		30

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Pro Ile Arg Ser Met Arg Glu Ser Glu His Asn Ser Gln Gly Tyr Phe
    35          40          45
Met Lys Gln Thr Gln Arg His Asp Ala Ile Ile Glu Leu Val Lys Lys
    50          55          60
Gln Gly Tyr Val Ser Thr Glu Glu Leu Val Glu Gln Phe Ala Val Ser
    65          70          75          80
Pro Gln Thr Ile Arg Arg Asp Leu Asn Asp Leu Ala Asp Gln Asn Arg
    85          90          95
Ile Leu Arg His His Gly Gly Ala Ala Leu Pro Ser Ser Ser Val Asn
    100          105          110
Thr Ser Trp His Asp Arg Lys Ala Thr Gln Thr Ala Glu Lys Glu Arg
    115          120          125
Ile Ala Arg Lys Val Ala Ser Gln Ile Pro Asn Gly Ala Thr Leu Phe
    130          135          140
Ile Asp Ile Gly Thr Thr Pro Glu Ala Val Ala His Ala Leu Leu Asn
    145          150          155          160
His Glu Asn Leu Arg Val Val Thr Asn Asn Leu Asn Val Ala Asn Thr
    165          170          175
Leu Met Gln Lys Asp Asp Phe Arg Ile Ile Leu Ala Gly Gly Glu Leu
    180          185          190
Arg Ser Arg Asp Gly Gly Ile Ile Gly Glu Ala Thr Leu Asp Phe Ile
    195          200          205
Ser Gln Phe Arg Leu Asp Phe Gly Ile Leu Gly Ile Ser Gly Ile Asp
    210          215          220
Thr Asp Gly Ser Leu Leu Glu Phe Asp Tyr His Glu Val Arg Thr Lys
    225          230          235          240
Arg Ala Ile Ile Glu Asn Ser Arg His Val Met Leu Val Val Asp His
    245          250          255
Ser Lys Phe Gly Arg Asn Ala Met Val Asn Met Gly Ser Ile Ser Met
    260          265          270
Val Asp Ala Val Tyr Thr Asp Val Met Pro Pro Ala Gly Val Met Gln
    275          280          285
Val Ile Lys Asp Asn Asn Leu Gln Leu Glu Leu Cys
    290          295          300

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<210> 6917

<211> 811

<212> PRT

<213> Enterobacter cloacae

<400> 6917

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Arg Gln Met Cys Phe Leu Ser Thr Gly Cys Arg Phe Pro Met Ser Gln
1          5          10          15
Pro Thr Phe Asn Lys Ala Gln Phe Gln Ala Ala Leu Thr Arg Gln Trp
    20          25          30
Gln Arg Phe Gly Leu His Ala Ala Asn Glu Met Thr Pro His Gln Trp
    35          40          45
Trp Gln Ala Val Ser Gly Ala Leu Ala Glu Gln Leu Asp Ala Gln Pro
    50          55          60
Val Ala Lys Pro Val Lys Gly Gln Arg His Val Asn Tyr Ile Ser Met
    65          70          75          80
Glu Phe Leu Ile Gly Arg Leu Thr Gly Asn Asn Leu Leu Asn Leu Gly
    85          90          95
Trp Tyr Gln Glu Val Gly Asp Val Leu Lys Glu His Asp Ile Asn Leu
    100          105          110
Thr Asp Leu Leu Glu Glu Glu Val Asp Pro Ala Leu Gly Asn Gly Gly
    115          120          125
Leu Gly Arg Leu Ala Ala Cys Phe Leu Asp Ser Met Ala Thr Val Gly
    130          135          140
Gln Ser Ala Ile Gly Tyr Gly Leu Asn Tyr Gln Tyr Gly Leu Phe Arg
    145          150          155          160

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Gln	Ser	Phe	Ala	Asp	Gly	His	Gln	Met	Glu	Ala	Pro	Asp	Asp	Trp	His
				165					170					175	
Arg	Asn	Thr	Tyr	Pro	Trp	Phe	Arg	His	Asn	Ala	Gln	Leu	Asp	Val	Gln
			180					185					190		
Val	Gly	Ile	Gly	Gly	Lys	Val	Thr	Lys	Gln	Gly	Leu	Trp	Glu	Pro	Ala
		195					200					205			
Phe	Thr	Ile	Thr	Gly	Glu	Ala	Trp	Asp	Leu	Pro	Val	Leu	Gly	Tyr	Arg
	210					215					220				
Asn	Gly	Val	Ala	Gln	Pro	Leu	Arg	Leu	Trp	Gln	Ala	Lys	His	Ala	His
225					230					235					240
Pro	Phe	Asn	Leu	Thr	Lys	Phe	Asn	Asp	Gly	Asp	Phe	Leu	Arg	Ala	Glu
				245					250					255	
Gln	Gln	Gly	Ile	Asp	Ala	Glu	Lys	Leu	Thr	Lys	Val	Leu	Tyr	Pro	Asn
			260					265					270		
Asp	Asn	His	Leu	Ala	Gly	Lys	Lys	Leu	Arg	Leu	Met	Gln	Gln	Tyr	Phe
		275					280					285			
Gln	Cys	Ala	Cys	Ser	Val	Ala	Asp	Ile	Leu	Arg	Arg	His	His	Leu	Ala
	290					295					300				
Gly	Arg	Lys	Leu	Ala	Gln	Leu	Pro	Asp	Phe	Glu	Val	Ile	Gln	Leu	Asn
305					310					315					320
Asp	Thr	His	Pro	Thr	Ile	Ala	Ile	Pro	Glu	Leu	Leu	Arg	Val	Leu	Ile
				325					330					335	
Asp	Glu	His	Gln	Leu	Ser	Trp	Asp	Asp	Ala	Trp	Ala	Ile	Thr	Ser	Arg
			340					345					350		
Thr	Phe	Ala	Tyr	Thr	Asn	His	Thr	Leu	Met	Pro	Glu	Ala	Leu	Glu	Cys
		355					360					365			
Trp	Asp	Glu	Lys	Leu	Val	Lys	Thr	Leu	Leu	Pro	Arg	His	Met	Gln	Ile
	370					375					380				
Ile	Asn	Lys	Ile	Asn	Asp	Gln	Phe	Lys	Thr	Leu	Val	Glu	Lys	Thr	Trp
385					390					395					400
Pro	Gly	Asp	Lys	Ala	Val	Trp	Ala	Lys	Leu	Ala	Val	Val	His	Asp	Lys
				405					410					415	
Gln	Val	Arg	Met	Ala	Asn	Met	Cys	Val	Val	Ser	Gly	Phe	Ala	Val	Asn
			420					425					430		
Gly	Val	Ala	Ala	Leu	His	Ser	Asp	Leu	Val	Val	Lys	Asp	Leu	Phe	Pro
		435					440					445			
Glu	Tyr	His	Gln	Leu	Trp	Pro	Thr	Lys	Phe	His	Asn	Val	Thr	Asn	Gly
	450					455					460				
Ile	Thr	Pro	Arg	Arg	Trp	Ile	Lys	Gln	Cys	Asn	Pro	Leu	Leu	Ala	Gly
465					470					475					480
Leu	Leu	Asp	Lys	Thr	Leu	Lys	Lys	Glu	Trp	Ala	Asn	Asp	Leu	Asp	Gln
				485					490					495	
Leu	Ile	Asn	Leu	Glu	Lys	Leu	Ala	Asp	Asn	Ala	Lys	Phe	Arg	Glu	Gln
			500					505					510		
Tyr	Arg	Ala	Ile	Lys	Leu	Glu	Asn	Lys	Val	Arg	Leu	Ala	Glu	Phe	Val
		515					520					525			
Lys	Met	Arg	Thr	Gly	Ile	Glu	Ile	Asn	Pro	Asn	Ala	Ile	Phe	Asp	Ile
	530					535					540				
Gln	Ile	Lys	Arg	Leu	His	Glu	Tyr	Lys	Arg	Gln	His	Leu	Asn	Leu	Leu
545					550					555					560
His	Ile	Leu	Ala	Leu	Tyr	Lys	Glu	Ile	Arg	Glu	Asn	Pro	Gln	Ala	Asp
			565						570					575	
Arg	Val	Pro	Arg	Val	Phe	Leu	Phe	Gly	Ala	Lys	Ala	Ala	Pro	Gly	Tyr
			580					585					590		
Tyr	Leu	Ala	Lys	Asn	Ile	Ile	Leu	Ala	Ile	Asn	Lys	Val	Ala	Ala	Ala
		595					600					605			
Ile	Asn	Asn	Asp	Pro	Lys	Val	Gly	Asp	Lys	Leu	Lys	Val	Val	Phe	Leu
	610					615					620				
Pro	Asp	Tyr	Cys	Val	Ser	Ala	Ala	Glu	Met	Leu	Ile	Pro	Ala	Ala	Asp
625					630					635					640
Ile	Ser	Glu	Gln	Ile	Ser	Thr	Ala	Gly	Lys	Glu	Ala	Ser	Gly	Thr	Gly

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<210> 6918
<211> 697
<212> PRT
<213> Enterobacter cloacae
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400> 6918															
Gly 1	Ser	Ala	Met	Glu 5	Ser	Lys	Arg	Leu	Asp 10	Ser	Ala	Ala	Gln	Ala 15	Ala
Gly	Ile	Ser	Leu 20	Ser	Tyr	Ile	Asn	Ala 25	His	Gly	Lys	Pro	Gln	Ser 30	Ile
Gly	Ala	Asp	Thr 35	Lys	Arg	Arg	Leu 40	Asp	Ala	Met	His	Lys	Thr	Asp	
Ala	Lys 50	Ala	Ser	Gly	Ala	Pro 55	Val	Pro	Asn	Val	Lys 60	Val	Phe	Thr	Ala
Gly 65	Lys	Lys	Met	Pro	Leu 70	Ala	Val	Glu	Gly	Arg 75	Gly	Glu	Phe	Ser	Trp 80
Leu	Leu	Thr	Thr	Glu 85	Glu	Gly	His	Gln	His 90	Lys	Gly	His	Ala	Thr	Gly 95
Gly	Lys	Thr	Leu 100	Asn	Leu	Pro	Ala	Lys	Leu 105	Pro	Glu	Gly	Tyr	His	Thr 110
Leu	Thr	Leu 115	Thr	Arg	Asp	Asp	Gln 120	Arg	Phe	His	Cys	Arg	Val	Ile	Val 125
Ala	Pro 130	Lys	Arg	Cys	Tyr	Glu 135	Pro	Gln	Ala	Leu 140	Leu	Glu	Gly	Lys	Lys 145
Leu 145	Trp	Gly	Ala	Cys	Val 150	Gln	Leu	Tyr	Thr	Leu 155	Arg	Ser	Asp	Ser	Asn 160
Trp	Gly	Ile	Gly	Asp 165	Phe	Gly	Asp	Leu	Lys 170	Lys	Met	Leu	Ala	Ser	Val 175
Gly	Glu	Arg	Gly 180	Gly	Ala	Phe	Ile	Gly 185	Leu	Asn	Pro	Ile	His	Ala	Leu 190
Tyr	Pro	Ala 195	Asn	Pro	Glu	Ser	Ala 200	Ser	Pro	Tyr	Ser	Pro	Ser	Ser	Arg 205
Arg	Trp 210	Leu	Asn	Val	Ile	Tyr 215	Ile	Asp	Val	Asn	Ala 220	Leu	Asp	Asp	Phe 225
Lys 225	Asn	Ser	Lys	Glu 230	Ala	Gln	Ala	Trp	Trp	Lys 235	Leu	Glu	Thr	Thr	Gln 240
Gln	Met	Leu	Lys	Gln 245	Ala	Arg	Asp	Ala	Asp 250	Trp	Val	Asp	Tyr	Ala	Ser 255
Val	Thr	Ala	Leu	Lys	Met	Ala	Ala	Leu	Arg	Leu	Ala	Trp	Lys	Gly	Phe 260

										260						265						270		
Ala	Lys	Arg	Asp	Asp	Glu	Gln	Met				Ala	Ala	Phe	Arg	Gln	Phe	Val	Met						
		275					280								285									
Gln	Glu	Gly	Glu	Ser	Leu	Tyr	Trp	Gln	Ala	Ala	Phe	Asp	Ala	Leu	His									
		290					295						300											
Ala	Tyr	Gln	Val	Gln	Glu	Asp	Glu	Met	Arg	Trp	Gly	Trp	Pro	Val	Trp									
305					310					315					320									
Pro	Glu	Ala	Tyr	Gln	Ser	Val	Asp	Thr	Pro	Glu	Val	Lys	Ala	Phe	Cys									
				325					330					335										
Glu	Thr	His	Ala	Asp	Glu	Val	Asp	Phe	Tyr	Leu	Trp	Leu	Gln	Trp	Leu									
				340					345					350										
Ala	Tyr	Ser	Gln	Phe	Ala	Ala	Cys	Trp	Gln	Val	Ser	Gln	Gly	Tyr	Asn									
				355			360					365												
Met	Pro	Ile	Gly	Leu	Tyr	Arg	Asp	Leu	Ala	Val	Gly	Val	Ala	Glu	Gly									
						375					380													
Gly	Ala	Glu	Thr	Trp	Cys	Asp	Arg	Glu	Leu	Tyr	Cys	Leu	Lys	Ala	Ser									
385					390					395					400									
Val	Gly	Ala	Pro	Pro	Asp	Ile	Leu	Gly	Pro	Leu	Gly	Gln	Asn	Trp	Gly									
				405					410					415										
Leu	Pro	Pro	Met	Asp	Pro	His	Val	Met	Ala	Ala	Arg	Ala	Tyr	Glu	Pro									
				420					425					430										
Phe	Ile	Asp	Leu	Leu	Arg	Ala	Asn	Met	Gln	Asn	Cys	Gly	Ala	Leu	Arg									
				435			440					445												
Ile	Asp	His	Val	Met	Ser	Val	Leu	Arg	Leu	Trp	Trp	Ile	Pro	Tyr	Gly									
				450			455					460												
Glu	Thr	Ala	Asp	His	Gly	Ala	Tyr	Val	Gln	Tyr	Pro	Val	Asp	Asp	Leu									
465					470					475					480									
Leu	Ser	Ile	Leu	Ala	Leu	Glu	Ser	Lys	Arg	His	Gln	Cys	Met	Val	Ile									
				485					490					495										
Gly	Glu	Asp	Leu	Gly	Thr	Val	Pro	Val	Glu	Ile	Val	Ser	Lys	Leu	Arg									
				500					505					510										
Asp	Ser	Gly	Val	Tyr	Ser	Tyr	Lys	Val	Leu	Tyr	Phe	Glu	Asn	Asp	His									
				515			520					525												
Glu	Lys	Thr	Phe	Arg	Ala	Pro	Lys	Ala	Tyr	Pro	Glu	Gln	Ser	Met	Ala									
				530			535					540												
Val	Ala	Thr	Thr	His	Asp	Leu	Pro	Thr	Leu	Arg	Gly	Tyr	Trp	Glu	Ser									
545					550					555					560									
Gly	Asp	Leu	Thr	Leu	Gly	Lys	Thr	Leu	Gly	Leu	Tyr	Pro	Asp	Glu	Glu									
				565					570					575										
Val	Leu	Arg	Gly	Leu	Tyr	Gln	Asp	Arg	Glu	Leu	Ala	Lys	Gln	Gly	Leu									
				580					585					590										
Leu	Asp	Ala	Leu	His	Lys	His	Gly	Cys	Leu	Pro	Lys	Arg	Ala	Gly	His									
				595			600					605												
Lys	Ala	Ser	Leu	Met	Ser	Met	Thr	Pro	Met	Leu	Asn	Arg	Gly	Leu	Gln									
				610			615					620												
Arg	Tyr	Ile	Ala	Asp	Ser	Asn	Ser	Ala	Leu	Leu	Gly	Leu	Gln	Pro	Glu									
625					630					635					640									
Asp	Trp	Ile	Asp	Met	Ala	Glu	Pro	Val	Asn	Ile	Pro	Gly	Thr	Ser	Tyr									
				645					650					655										
Gln	Tyr	Lys	Asn	Trp	Arg	Arg	Lys	Leu	Ser	Thr	Thr	Leu	Glu	Ala	Met									
				660					665					670										
Phe	Ala	Asp	Asp	Gly	Val	Asn	Arg	Leu	Ile	Lys	Asp	Leu	Asp	Lys	Arg									
				675			680					685												
Arg	Arg	Ala	Val	Gly	Asn	Lys	Arg																	
				690			695																	

<210> 6919

<211> 89

<212> PRT

<213> Enterobacter cloacae

<400> 6919

Leu Ser Arg Gln Ser Arg Pro Ala His Pro Ala Ala Arg Cys Gly Gly
 1 5 10 15
 Thr Thr Asp Arg Tyr Cys Gly Ala Ser Arg Pro Ala Leu Pro Ser Asp
 20 25 30
 Gly Arg Arg Gln Met Thr Asp Gly Thr Gly Arg Thr Asp Ser Ser Gly
 35 40 45
 His Ser Gln Ser Pro Thr Gly Pro Pro Leu Pro Trp Asn Pro Gly Ser
 50 55 60
 Arg Leu Pro Asp Val Pro Asp Arg Arg Tyr Pro Ala Pro Gly Gln Pro
 65 70 75 80
 Leu Leu Pro Ala Asp Arg Ser Gly
 85

<210> 6920

<211> 920

<212> PRT

<213> Enterobacter cloacae

<400> 6920

Leu Arg Ser Ala Lys Lys Ile Asn Ser Leu Val Pro His Ser Glu Val
 1 5 10 15
 Lys Thr Met Leu Ile Pro Ser Lys Leu Ser Arg Pro Val Arg Leu Asp
 20 25 30
 His Thr Val Val Arg Glu Arg Leu Leu Ala Lys Leu Ser Gly Ala His
 35 40 45
 Asn Phe Arg Leu Ala Leu Val Thr Ser Pro Ala Gly Tyr Gly Lys Thr
 50 55 60
 Thr Leu Ile Ser Gln Trp Ala Ala Gly Lys Ser Asp Leu Gly Trp Tyr
 65 70 75 80
 Ser Leu Asp Glu Gly Asp Asn Gln Gln Glu Arg Phe Ala Ser Tyr Leu
 85 90 95
 Ile Ala Ala Ile Gln Gln Ala Thr Asn Gly His Cys Val Thr Ser Glu
 100 105 110
 Val Met Val Gln Lys Arg Gln Tyr Ala Ser Leu Ser Ser Leu Phe Ser
 115 120 125
 Gln Leu Phe Ile Glu Leu Ala Glu Trp His Arg Pro Leu Tyr Val Val
 130 135 140
 Ile Asp Asp Tyr His Leu Ile Thr Asn Pro Val Ile His Glu Ser Met
 145 150 155 160
 Arg Phe Phe Leu Arg His Gln Pro Glu Asn Leu Thr Leu Val Val Leu
 165 170 175
 Ser Arg Asn Leu Pro Gln Leu Gly Ile Ala Asn Leu Arg Val Arg Asp
 180 185 190
 Gln Leu Leu Glu Ile Gly Ser Gln Gln Leu Ala Phe Thr His Gln Glu
 195 200 205
 Ala Lys Gln Phe Phe Asp Cys Arg Leu Thr Ser Pro Ile Glu Ala Ser
 210 215 220
 Glu Ser Ser Arg Leu Cys Asp Asp Val Ala Gly Trp Ala Thr Ala Leu
 225 230 235 240
 Gln Leu Ile Ala Leu Ser Ala Arg Gln Asn Asn Ser Pro Thr His Gln
 245 250 255
 Ser Ala Arg Arg Leu Ala Gly Ile Asn Ala Ser His Leu Ser Asp Tyr
 260 265 270
 Leu Val Asp Glu Val Leu Asp Ser Val Asp Leu Ser Thr Arg His Phe
 275 280 285
 Leu Leu Lys Ser Ser Leu Leu Arg Ser Met Asn Asp Ala Leu Ile Val
 290 295 300
 Arg Val Thr Gly Ile Glu Asn Gly Gln Leu Gln Leu Glu Glu Ile Glu
 305 310 315 320
 Arg Gln Gly Leu Phe Leu Thr Arg Met Asp Asp His Gly Glu Trp Phe

				325					330					335	
Ser	Tyr	His	Pro	Leu	Phe	Gly	Ser	Phe	Leu	Arg	Gln	Arg	Cys	Gln	Trp
			340					345					350		
Glu	Leu	Ala	Ala	Glu	Leu	Pro	Asp	Ile	His	Arg	Ala	Ala	Ala	Glu	Ser
		355					360					365			
Trp	Met	Ala	Gln	Gly	Phe	Pro	Ser	Glu	Ala	Ile	His	His	Ala	Leu	Ala
	370					375					380				
Ala	Gly	Asp	Ala	Gly	Met	Leu	Arg	Asp	Ile	Leu	Leu	Asn	His	Ala	Trp
385					390					395					400
Gly	Leu	Phe	Asn	His	Ser	Glu	Leu	Thr	Leu	Leu	Glu	Glu	Ser	Leu	Lys
				405					410					415	
Ala	Leu	Pro	Trp	Glu	Ser	Leu	Leu	Glu	Asn	Pro	Arg	Leu	Val	Leu	Leu
			420					425					430		
Gln	Ala	Trp	Leu	Met	Gln	Ser	Gln	His	Arg	Tyr	Ser	Glu	Val	Asn	Thr
		435					440					445			
Leu	Leu	Ala	Arg	Ala	Glu	Gln	Glu	Met	Glu	Ser	Glu	Met	Asp	Thr	Thr
	450					455					460				
Leu	His	Gly	Glu	Phe	Asn	Ala	Leu	Arg	Ala	Gln	Val	Ala	Ile	Asn	Asp
465					470					475					480
Gly	Asp	Pro	Asp	Glu	Ala	Glu	Arg	Leu	Ala	Met	Val	Ala	Leu	Asp	Glu
				485					490					495	
Leu	Pro	Leu	Ala	Asn	Phe	Tyr	Ser	Arg	Ile	Val	Ala	Thr	Ser	Val	His
			500					505					510		
Gly	Glu	Val	Leu	His	Cys	Lys	Gly	Asp	Leu	Thr	Arg	Ser	Leu	Ser	Leu
		515					520					525			
Met	Gln	Gln	Thr	Glu	Gln	Met	Ala	Arg	Arg	His	Asp	Val	Trp	His	Tyr
	530					535					540				
Ala	Leu	Trp	Ser	Leu	Ile	Gln	Gln	Ser	Glu	Ile	Leu	Phe	Ala	Gln	Gly
545					550					555					560
Phe	Leu	Gln	Ala	Ala	Trp	Glu	Asn	Gln	Glu	Lys	Ala	Phe	Gln	Leu	Ile
				565					570					575	
Arg	Glu	Gln	His	Leu	Glu	Gln	Leu	Pro	Met	His	Glu	Phe	Leu	Leu	Arg
			580					585					590		
Ile	Arg	Ala	Gln	Leu	Leu	Trp	Ala	Trp	Ser	Arg	Leu	Asp	Glu	Ala	Glu
		595					600					605			
Ser	Cys	Ala	Arg	Gln	Gly	Leu	Asn	Val	Leu	Ser	Ser	Phe	Gln	Pro	Gln
	610				615						620				
Gln	Gln	Leu	Gln	Cys	Leu	Ala	Leu	Leu	Val	Gln	Cys	Ser	Leu	Ala	Arg
625					630					635					640
Gly	Asp	Leu	Asp	Asn	Ala	Arg	Asn	His	Leu	Asn	Arg	Leu	Glu	Asn	Leu
				645					650					655	
Leu	Gly	Asn	Gly	Gln	Tyr	His	Ser	Asp	Trp	Val	Ser	Asn	Ala	Asp	Lys
			660					665					670		
Val	Arg	Val	Ile	Tyr	Trp	Gln	Met	Thr	Gly	Asp	Lys	Lys	Ser	Ala	

Leu Arg Glu Ile Asn Gln His His Arg His Lys Phe Ala His Phe Asp
 820 825 830
 Glu Asn Phe Val Glu Arg Leu Leu Asn His Pro Glu Val Pro Glu Leu
 835 840 845
 Ile Arg Thr Ser Pro Leu Thr Gln Arg Glu Trp Gln Val Leu Gly Leu
 850 855 860
 Ile Tyr Ser Gly Tyr Ser Asn Glu Gln Ile Ala Gly Glu Leu Ala Val
 865 870 875 880
 Ala Ala Thr Thr Ile Lys Thr His Ile Arg Asn Leu Tyr Gln Lys Leu
 885 890 895
 Gly Val Ala His Arg Gln Asp Ala Val Gln His Ala Gln Gln Leu Leu
 900 905 910
 Lys Met Met Gly Tyr Gly Val
 915 920

<210> 6921

<211> 63

<212> PRT

<213> Enterobacter cloacae

<400> 6921

Ile Thr Arg Ser Thr Arg Ile Phe Gln Pro Arg Val Lys Ile Ser His
 1 5 10 15
 Val Asn Asp Pro Gly Phe Trp Leu Phe Lys Glu Tyr Phe Asn Leu Thr
 20 25 30
 Ile Gly Glu Thr Ile Lys Ser Trp Ser Ala Leu Glu Thr Ile Ile Ser
 35 40 45
 Val Cys Gly Leu Val Gly Val Leu Leu Leu Asn Met Val Val
 50 55 60

<210> 6922

<211> 351

<212> PRT

<213> Enterobacter cloacae

<400> 6922

Lys Lys Glu His Arg Met Lys Tyr Val Asn Leu Gly Arg Ser Gly Leu
 1 5 10 15
 Gln Val Ser Arg Leu Cys Leu Gly Cys Met Ser Tyr Gly Glu Pro Glu
 20 25 30
 Arg Leu Pro Gln Pro Trp Ser Leu Asp Glu Lys Ala Ser Arg Pro Leu
 35 40 45
 Ile Arg Gln Ala Leu Glu Ala Gly Ile Asn Phe Phe Asp Thr Ala Asn
 50 55 60
 Ile Tyr Ser Gly Gly Ser Ser Glu Glu Ile Thr Gly Lys Ala Leu Arg
 65 70 75 80
 Glu Met Ala Arg Arg Asp Glu Ile Val Val Ala Thr Lys Thr Phe Phe
 85 90 95
 Pro Trp Arg Asn Ser Pro Asn Thr Gly Phe Leu Ser Arg Lys Ala Ile
 100 105 110
 Phe Gln Ser Ile Asp Asp Ser Leu Met Arg Leu Gly Met Asp Tyr Val
 115 120 125
 Asp Leu Phe Gln Ile His Arg Phe Asp His Ser Thr Pro Val Glu Glu
 130 135 140
 Thr Met Glu Ala Leu His Asp Leu Val Lys Ser Gly Lys Val Arg Tyr
 145 150 155 160
 Ile Gly Ala Ser Ser Met Glu Ala Trp Arg Phe Ala Lys Met Gln His
 165 170 175
 Thr Ala Glu Leu Asn Gly Trp Thr Arg Phe Ile Thr Met Gln Pro Gln
 180 185 190
 Tyr Asn Leu Leu Tyr Arg Glu Glu Glu Arg Glu Met Leu Pro Leu Cys